

**TAFINLAR- dabrafenib capsule**  
**TAFINLAR- dabrafenib tablet, for suspension**  
**Novartis Pharmaceuticals Corporation**

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**HIGHLIGHTS OF PRESCRIBING INFORMATION**

**These highlights do not include all the information needed to use TAFINLAR safely and effectively. See full prescribing information for TAFINLAR.**

**TAFINLAR® (dabrafenib) capsules, for oral use**  
**TAFINLAR® (dabrafenib) tablets for oral suspension**  
**Initial U.S. Approval: 2013**

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**RECENT MAJOR CHANGES**  
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Indications and Usage, BRAF V600E Mutation-Positive Locally Advanced or Metastatic Anaplastic Thyroid Cancer (1.5)	1/2025
Dosage and Administration, Patient Selection (2.1)	1/2025
Dosage and Administration, Administration (2.3)	3/2025
Warnings and Precautions, Uveitis (5.5)	4/2025

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**INDICATIONS AND USAGE**  
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TAFINLAR is a kinase inhibitor indicated as a single agent for the treatment of patients with unresectable or metastatic melanoma with BRAF V600E mutation as detected by an FDA-approved test. (1.1, 2.1)

TAFINLAR is indicated, in combination with trametinib, for:

- the treatment of patients with unresectable or metastatic melanoma with BRAF V600E or V600K mutations as detected by an FDA-approved test. (1.2, 2.1)
- the adjuvant treatment of patients with melanoma with BRAF V600E or V600K mutations, as detected by an FDA-approved test, and involvement of lymph node(s), following complete resection. (1.3, 2.1)
- the treatment of patients with metastatic non-small cell lung cancer (NSCLC) with BRAF V600E mutation as detected by an FDA-approved test. (1.4, 2.1)
- the treatment of patients with locally advanced or metastatic anaplastic thyroid cancer (ATC) with BRAF V600E mutation, as detected by an FDA-approved test, and with no satisfactory locoregional treatment options. (1.5, 2.1)
- the treatment of adult and pediatric patients 1 year of age and older with unresectable or metastatic solid tumors with BRAF V600E mutation who have progressed following prior treatment and have no satisfactory alternative treatment options. This indication is approved under accelerated approval based on overall response rate (ORR) and duration of response (DoR). Continued approval for this indication may be contingent upon verification and description of clinical benefit in a confirmatory trial(s). (1.6, 2.1)
- the treatment of pediatric patients 1 year of age and older with low-grade glioma (LGG) with a BRAF V600E mutation who require systemic therapy. (1.7, 2.1)

Limitations of Use: TAFINLAR is not indicated for treatment of patients with colorectal cancer because of known intrinsic resistance to BRAF inhibition. (1.8, 12.1) TAFINLAR is not indicated for treatment of patients with wild-type BRAF solid tumors. (5.2)

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**DOSAGE AND ADMINISTRATION**  
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- The recommended dosage of TAFINLAR in adult patients is 150 mg (two 75 mg capsules) orally twice daily. The recommended dosage for TAFINLAR in pediatric patients is based on body weight. Take TAFINLAR at least 1 hour before or 2 hours after a meal. (2)

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**DOSAGE FORMS AND STRENGTHS**  
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TAFINLAR Capsules: 50 mg, 75 mg (3)  
TAFINLAR Tablets for Oral Suspension: 10 mg (3)

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**CONTRAINDICATIONS**  
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None. (4)

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**WARNINGS AND PRECAUTIONS**  
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- New Primary Malignancies, Cutaneous and Non-Cutaneous: Can occur when TAFINLAR is administered

as a single agent or with trametinib. Monitor patients for new malignancies prior to, or while on therapy, and following discontinuation of treatment. (5.1, 2.4)

- **Tumor Promotion in BRAF Wild-type Tumors:** Increased cell proliferation can occur with BRAF inhibitors. (5.2, 2.1)
- **Hemorrhage:** Major hemorrhagic events can occur in patients receiving TAFINLAR with trametinib. Monitor for signs and symptoms of bleeding. (5.3)
- **Cardiomyopathy:** Assess left ventricular ejection fraction (LVEF) before treatment with TAFINLAR and trametinib, after one month of treatment, then every 2 to 3 months thereafter. (5.4, 2.4)
- **Uveitis:** Perform ophthalmological evaluation for any visual disturbances. (5.5, 2.4)
- **Serious Febrile Reactions:** Incidence and severity of pyrexia are increased with TAFINLAR and trametinib. (5.6, 2.4)
- **Serious Skin Toxicities:** Monitor for skin toxicities. Discontinue for intolerable Grade 2 or for Grade 3 or 4 rash not improving within 3 weeks despite interruption of TAFINLAR. Permanently discontinue for severe cutaneous adverse reactions (SCARs). (5.7, 2.4)
- **Hyperglycemia:** Monitor serum glucose levels in patients with preexisting diabetes or hyperglycemia. (5.8)
- **Glucose-6-phosphate Dehydrogenase Deficiency (G6PD):** Closely monitor for hemolytic anemia. (5.9)
- **Hemophagocytic Lymphohistiocytosis (HLH):** Interrupt treatment for suspected HLH. Discontinue treatment if HLH is confirmed. (5.11)
- **Embryo-Fetal Toxicity:** Can cause fetal harm. Advise females of reproductive potential of potential risk to a fetus and to use an effective non-hormonal method of contraception. (5.12, 8.1, 8.3)

#### ADVERSE REACTIONS

Most common adverse reactions ( $\geq 20\%$ ) for TAFINLAR as a single agent are hyperkeratosis, headache, pyrexia, arthralgia, papilloma, alopecia, and palmar-plantar erythrodysesthesia syndrome. (6.1)

Most common adverse reactions ( $\geq 20\%$ ) for TAFINLAR in combination with trametinib include:

- Unresectable or metastatic melanoma: pyrexia, rash, chills, headache, arthralgia, and cough. (6.1)
- Adjuvant treatment of melanoma: pyrexia, fatigue, nausea, headache, rash, chills, diarrhea, vomiting, arthralgia, and myalgia. (6.1)
- NSCLC: pyrexia, fatigue, nausea, vomiting, diarrhea, dry skin, decreased appetite, edema, rash, chills, hemorrhage, cough, and dyspnea. (6.1)
- Adult patients with solid tumors: pyrexia, fatigue, nausea, rash, chills, headache, hemorrhage, cough, vomiting, constipation, diarrhea, myalgia, arthralgia, and edema. (6.1)
- Pediatric patients with solid tumors: pyrexia, rash, vomiting, fatigue, dry skin, cough, diarrhea, dermatitis acneiform, headache, abdominal pain, nausea, hemorrhage, constipation, and paronychia. (6.1)
- Pediatric patients with LGG: pyrexia, rash, headache, vomiting, musculoskeletal pain, fatigue, diarrhea, dry skin, nausea, hemorrhage, abdominal pain, and dermatitis acneiform. (6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact Novartis Pharmaceuticals Corporation at 1-888-669-6682 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

#### DRUG INTERACTIONS

- Avoid concurrent administration of strong inhibitors of CYP3A4 or CYP2C8. (7.1)
- Concomitant use with agents that are sensitive substrates of CYP3A4, CYP2C8, CYP2C9, CYP2C19, or CYP2B6 may result in loss of efficacy of these agents. (7.2)

#### USE IN SPECIFIC POPULATIONS

- **Lactation:** Do not breastfeed. (8.2)
- **Females and Males of Reproductive Potential:** May impair fertility. (8.3)

**See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.**

**Revised: 4/2025**

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## **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS AND USAGE**

#### **1.1 BRAF V600E Mutation-Positive Unresectable or Metastatic Melanoma**

TAFINLAR<sup>®</sup> is indicated as a single agent for the treatment of patients with unresectable or metastatic melanoma with BRAF V600E mutation as detected by an FDA-approved test.

#### **1.2 BRAF V600E or V600K Mutation-Positive Unresectable or Metastatic Melanoma**

TAFINLAR is indicated, in combination with trametinib, for the treatment of patients with unresectable or metastatic melanoma with BRAF V600E or V600K mutations, as detected by an FDA-approved test [see *Dosage and Administration (2.1)*].

#### **1.3 Adjuvant Treatment of BRAF V600E or V600K Mutation-Positive Melanoma**

TAFINLAR is indicated, in combination with trametinib, for the adjuvant treatment of patients with melanoma with BRAF V600E or V600K mutations, as detected by an FDA-approved test, and involvement of lymph node(s), following complete resection [see *Dosage and Administration (2.1)*].

#### **1.4 BRAF V600E Mutation-Positive Metastatic NSCLC**

TAFINLAR is indicated, in combination with trametinib, for the treatment of patients with metastatic non-small cell lung cancer (NSCLC) with BRAF V600E mutation as detected by an FDA-approved test [see *Dosage and Administration (2.1)*].

#### **1.5 BRAF V600E Mutation-Positive Locally Advanced or Metastatic**

## **Anaplastic Thyroid Cancer**

TAFINLAR is indicated, in combination with trametinib, for the treatment of patients with locally advanced or metastatic anaplastic thyroid cancer (ATC) with BRAF V600E mutation, as detected by an FDA-approved test, and with no satisfactory locoregional treatment options [see *Dosage and Administration (2.1)*].

### **1.6 BRAF V600E Mutation-Positive Unresectable or Metastatic Solid Tumors**

TAFINLAR is indicated, in combination with trametinib, for the treatment of adult and pediatric patients 1 year of age and older with unresectable or metastatic solid tumors with BRAF V600E mutation who have progressed following prior treatment and have no satisfactory alternative treatment options [see *Dosage and Administration (2.1)*]. This indication is approved under accelerated approval based on overall response rate (ORR) and duration of response (DoR) [see *Clinical Studies (14.6)*]. Continued approval for this indication may be contingent upon verification and description of clinical benefit in a confirmatory trial(s).

### **1.7 BRAF V600E Mutation-Positive Low-Grade Glioma**

TAFINLAR is indicated, in combination with trametinib, for the treatment of pediatric patients 1 year of age and older with low-grade glioma (LGG) with a BRAF V600E mutation who require systemic therapy [see *Dosage and Administration (2.1)*].

### **1.8 Limitations of Use**

- TAFINLAR is not indicated for treatment of patients with colorectal cancer because of known intrinsic resistance to BRAF inhibition [see *Indications and Usage (1.6)*, *Clinical Pharmacology (12.1)*].
- TAFINLAR is not indicated for treatment of patients with wild-type BRAF solid tumors [see *Warnings and Precautions (5.2)*].

## **2 DOSAGE AND ADMINISTRATION**

### **2.1 Patient Selection**

#### Melanoma

- Confirm the presence of BRAF V600E mutation in tumor specimens prior to initiation of treatment with TAFINLAR as a single agent [see *Warnings and Precautions (5.2)*, *Clinical Studies (14.1)*].
- Confirm the presence of BRAF V600E or V600K mutation in tumor specimens prior to initiation of treatment with TAFINLAR and trametinib [see *Warnings and Precautions (5.2)*, *Clinical Studies (14.2, 14.3)*].
- Information on FDA-approved tests for the detection of BRAF V600 mutations in melanoma is available at: <http://www.fda.gov/CompanionDiagnostics>.

#### NSCLC

- Confirm the presence of BRAF V600E mutation in tumor specimens prior to initiation of treatment with TAFINLAR and trametinib [see *Clinical Studies (14.4)*].
- Information on FDA-approved tests for the detection of BRAF V600E mutations in NSCLC is available at: <http://www.fda.gov/CompanionDiagnostics>.

## ATC

- Confirm the presence of BRAF V600E mutation in tumor specimens prior to initiation of treatment with TAFINLAR and trametinib [see *Clinical Studies (14.5)*].
- Information on FDA-approved tests for the detection of BRAF V600E mutations in ATC is available at: <http://www.fda.gov/CompanionDiagnostics>.

## Solid Tumors

- Confirm the presence of BRAF V600E mutation in tumor specimens prior to initiation of treatment with TAFINLAR and trametinib [see *Clinical Studies (14.6)*]. An FDA-approved test for the detection of BRAF V600E mutation in solid tumors other than melanoma and NSCLC is not currently available.

## Low-Grade Glioma

- Confirm the presence of BRAF V600E mutation in tumor specimens prior to initiation of treatment with TAFINLAR and trametinib [see *Clinical Studies (14.7)*]. An FDA-approved test for the detection of BRAF V600E mutation in LGG is not currently available.

## **2.2 Recommended Dosage**

### *TAFINLAR Capsules*

#### Adult Patients

The recommended dosage for TAFINLAR capsules in adult patients is 150 mg taken orally twice daily [see *Dosage and Administration (2.3)*].

#### Pediatric Patients

The recommended dosage for TAFINLAR capsules in pediatric patients who weigh at least 26 kg is based on body weight (Table 1) [see *Dosage and Administration (2.3)*]. A recommended dosage of TAFINLAR capsules has not been established in patients who weigh less than 26 kg.

**Table 1. Recommended Dosage for TAFINLAR Capsules in Pediatric Patients (Weight-based)**

<b>Body Weight</b>	<b>Recommended Dosage</b>
26 to 37 kg	75 mg orally twice daily
38 to 50 kg	100 mg orally twice daily
51 kg or greater	150 mg orally twice daily

### *TAFINLAR Tablets for Oral Suspension*

#### Adult and Pediatric Patients

The recommended dosage for TAFINLAR tablets for oral suspension for adult and pediatric patients is based on body weight (Table 2) [see *Dosage and Administration (2.3)*].

**Table 2. Recommended Dosage for TAFINLAR Tablets for Oral Suspension in Adult and**

## Pediatric Patients (Weight-based)

Body Weight	Recommended Dosage
8 to 9 kg	20 mg twice daily
10 to 13 kg	30 mg twice daily
14 to 17 kg	40 mg twice daily
18 to 21 kg	50 mg twice daily
22 to 25 kg	60 mg twice daily
26 to 29 kg	70 mg twice daily
30 to 33 kg	80 mg twice daily
34 to 37 kg	90 mg twice daily
38 to 41 kg	100 mg twice daily
42 to 45 kg	110 mg twice daily
46 to 50 kg	130 mg twice daily
≥ 51 kg	150 mg twice daily

### *Duration of Treatment*

- The recommended duration of treatment for patients with unresectable or metastatic melanoma or solid tumors, metastatic NSCLC, or locally advanced or metastatic anaplastic thyroid cancer is until disease progression or unacceptable toxicity.
- The recommended duration of treatment in the adjuvant melanoma setting is until disease recurrence or unacceptable toxicity for up to 1 year.
- The recommended duration of treatment for pediatric patients with LGG is until disease progression or until unacceptable toxicity.

### *Combination Therapy with Trametinib*

Refer to the trametinib prescribing information for recommended trametinib dosing information.

## 2.3 Administration

- Take TAFINLAR at the same time each day, approximately 12 hours apart.
- Do not take a missed dose of TAFINLAR within 6 hours of the next dose of TAFINLAR.
- If vomiting occurs after TAFINLAR administration, do not take an additional dose. Take the next dose at its scheduled time.

### *TAFINLAR Capsules*

- Take TAFINLAR capsules on an empty stomach (at least 1 hour before or 2 hours after a meal) [see *Clinical Pharmacology (12.3)*].
- Do not open, crush, or break TAFINLAR capsules.

### *TAFINLAR Tablets for Oral Suspension*

- Prior to use of the oral suspension, instruct caregivers (and if appropriate, patients) on proper dosing and administration of TAFINLAR tablets for oral suspension.
- Take the oral suspension on an empty stomach (at least 1 hour before or 2 hours after a meal). Breastfeeding and/or baby formula may be given on demand if a pediatric patient is unable to tolerate the fasting conditions [see *Clinical Pharmacology (12.3)*].

- Do not swallow whole, chew or crush TAFINLAR tablets for oral suspension.

#### Preparation and Administration

- Prepare the oral suspension with approximately 5 mL of water for 1 to 4 tablets, and approximately 10 mL of water for 5 to 15 tablets in the provided dosing cup.
- Gently stir the water and prescribed number of tablets with the handle of a teaspoon until the tablets are fully dissolved. It may take at least 3 minutes to fully dissolve the tablets. Once the tablets are dissolved, the oral suspension will be cloudy white.
- Administer the oral suspension immediately after preparation from a dosing cup, oral syringe or feeding tube (10 French gauge or larger for 1 to 3 tablets; 12 French gauge or larger for 4 to 15 tablets).
- Discard the oral suspension if not administered within 30 minutes after preparation.

## 2.4 Dosage Modifications for Adverse Reactions

Dose reductions for adverse reactions associated with TAFINLAR are presented in Tables 3 and 4.

**Table 3. Recommended Dosage Reductions for TAFINLAR Capsules for Adverse Reactions**

<b>Recommended Dosage</b>	<b>75 mg orally twice daily</b>	<b>100 mg orally twice daily</b>	<b>150 mg orally twice daily</b>
First dose reduction	50 mg orally twice daily	75 mg orally twice daily	100 mg orally twice daily
Second dose reduction	N/A	50 mg orally twice daily	75 mg orally twice daily
Third dose reduction	N/A	N/A	50 mg orally twice daily
Subsequent modification	Permanently discontinue if unable to tolerate TAFINLAR capsules 50 mg orally twice daily.		

**Table 4. Recommended Dosage Reductions for TAFINLAR Tablets for Oral Suspension for Adverse Reactions**

<b>Body Weight (Recommended dosage)</b>	<b>First Dose Reduction</b>	<b>Second Dose Reduction</b>	<b>Third Dose Reduction</b>
	<b>Tablets for oral suspension twice daily</b>		
8 to 9 kg (20 mg twice daily)	10 mg twice daily	N/A	N/A
10 to 13 kg (30 mg twice daily)	20 mg twice daily	10 mg twice daily	N/A
14 to 17 kg (40 mg twice daily)	30 mg twice daily	20 mg twice daily	10 mg twice daily
18 to 21 kg (50 mg twice daily)	30 mg twice daily	20 mg twice daily	10 mg twice daily
22 to 25 kg (60 mg twice daily)	40 mg twice daily	30 mg twice daily	20 mg twice daily

26 to 29 kg (70 mg twice daily)	50 mg twice daily	40 mg twice daily	20 mg twice daily
30 to 33 kg (80 mg twice daily)	50 mg twice daily	40 mg twice daily	30 mg twice daily
34 to 37 kg (90 mg twice daily)	60 mg twice daily	50 mg twice daily	30 mg twice daily
38 to 41 kg (100 mg twice daily)	70 mg twice daily	50 mg twice daily	30 mg twice daily
42 to 45 kg (110 mg twice daily)	70 mg twice daily	60 mg twice daily	40 mg twice daily
46 to 50 kg (130 mg twice daily)	90 mg twice daily	70 mg twice daily	40 mg twice daily
≥ 51 kg (150 mg twice daily)	100 mg twice daily	80 mg twice daily	50 mg twice daily

Dosage modifications for adverse reactions associated with TAFINLAR are presented in Table 5.

**Table 5. Recommended Dosage Modifications for TAFINLAR for Adverse Reactions**

<b>Severity of Adverse Reaction<sup>a</sup></b>	<b>Dosage Modification for TAFINLAR<sup>b</sup></b>
<i>New Primary Malignancies [see Warnings and Precautions (5.1)]</i>	
Non-Cutaneous RAS Mutation-positive Malignancies	Permanently discontinue TAFINLAR.
<i>Cardiomyopathy [see Warnings and Precautions (5.4)]</i>	
<ul style="list-style-type: none"> <li>• Symptomatic cardiomyopathy</li> <li>• Absolute decrease in left ventricular ejection fraction (LVEF) of greater than 20% from baseline that is below the institutional lower limit of normal (LLN)</li> </ul>	Withhold TAFINLAR until LVEF improves to at least the institutional LLN and absolute decrease to less than or equal to 10% compared to baseline, then resume TAFINLAR at same dose.
<i>Uveitis [see Warnings and Precautions (5.5)]</i>	
<ul style="list-style-type: none"> <li>• Uveitis, including iritis and iridocyclitis</li> </ul>	<p>For mild or moderate uveitis that does not respond to ocular therapy, or for severe uveitis, withhold TAFINLAR for up to 6 weeks.</p> <ul style="list-style-type: none"> <li>• If improved to Grade 0-1, then resume TAFINLAR at same or lower dose.</li> <li>• If not improved, permanently discontinue TAFINLAR.</li> </ul>
<i>Febrile Reactions [see Warnings and Precautions (5.6)]</i>	
<ul style="list-style-type: none"> <li>• Fever of 100.4°F to 104°F (or first symptoms in case of recurrence)</li> </ul>	Withhold TAFINLAR until fever resolves, then resume TAFINLAR at

	same or lower dose.
<ul style="list-style-type: none"> <li>• Fever higher than 104°F</li> <li>• Fever complicated by rigors, hypotension, dehydration, or renal failure</li> </ul>	<ul style="list-style-type: none"> <li>• Withhold TAFINLAR until febrile reactions resolve for at least 24 hours, then resume TAFINLAR at lower dose.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>• Permanently discontinue TAFINLAR.</li> </ul>
<i>Skin Toxicities [see Warnings and Precautions (5.7)]</i>	
<ul style="list-style-type: none"> <li>• Intolerable Grade 2</li> <li>• Grade 3 or 4</li> </ul>	<p>Withhold TAFINLAR for up to 3 weeks.</p> <ul style="list-style-type: none"> <li>• If improved, resume TAFINLAR at lower dose.</li> <li>• If not improved, permanently discontinue TAFINLAR.</li> </ul>
<ul style="list-style-type: none"> <li>• Severe cutaneous adverse reactions (SCARs)</li> </ul>	Permanently discontinue TAFINLAR.
<i>Other Adverse Reactions<sup>c</sup>, including Hemorrhage [see Warnings and Precautions (5.3)]</i>	
<ul style="list-style-type: none"> <li>• Intolerable Grade 2</li> <li>• Any Grade 3</li> </ul>	<p>Withhold TAFINLAR.</p> <ul style="list-style-type: none"> <li>• If improved to Grade 0-1, resume TAFINLAR at lower dose.</li> <li>• If not improved, permanently discontinue TAFINLAR.</li> </ul>
<ul style="list-style-type: none"> <li>• First occurrence of any Grade 4</li> </ul>	<ul style="list-style-type: none"> <li>• Withhold TAFINLAR until improves to Grade 0-1, then resume TAFINLAR at lower dose.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>• Permanently discontinue TAFINLAR.</li> </ul>
<ul style="list-style-type: none"> <li>• Recurrent Grade 4</li> </ul>	Permanently discontinue TAFINLAR.

<sup>a</sup> National Cancer Institute Common Terminology Criteria for Adverse Events (NCI CTCAE) version 4.0.

<sup>b</sup> See Tables 3 and 4 for recommended dose reductions of TAFINLAR.

<sup>c</sup> Dose modifications are not recommended for TAFINLAR when administered with trametinib for the following adverse reactions of trametinib: retinal vein occlusion (RVO), retinal pigment epithelial detachment (RPED), interstitial lung disease/pneumonitis, and uncomplicated venous thromboembolism. Dose modification of TAFINLAR is not required for new primary cutaneous malignancies.

Refer to the trametinib prescribing information for dose modifications for adverse reactions associated with trametinib.

### 3 DOSAGE FORMS AND STRENGTHS

TAFINLAR Capsules:

- 50 mg: Dark red capsule imprinted with 'GS TEW' and '50 mg'.
- 75 mg: Dark pink capsule imprinted with 'GS LHF' and '75 mg'.

TAFINLAR Tablets for Oral Suspension:

- 10 mg: White to slightly yellow, round, biconvex 6 mm tablet debossed with "D" on one side and "NVR" on the other, contains berry flavor.

### 4 CONTRAINDICATIONS

None.

### 5 WARNINGS AND PRECAUTIONS

#### 5.1 New Primary Malignancies

##### Cutaneous Malignancies

*TAFINLAR Monotherapy (Adult):* In the pooled safety population [see *Adverse Reactions (6.1)*], cutaneous squamous cell carcinomas (cuSCC), and keratoacanthomas occurred in 11% and 4% of patients, respectively. Basal cell carcinoma and new primary melanoma occurred in 4% and 1% of patients, respectively.

*TAFINLAR Administered with Trametinib (Adult):* In the pooled safety population [see *Adverse Reactions (6.1)*], the incidence of cuSCC (including keratoacanthomas) occurred in 2% of patients. Basal cell carcinoma and new primary melanoma occurred in 3% and < 1% of patients, respectively.

*TAFINLAR Administered with Trametinib (Pediatric):* In the pooled safety population, new primary melanoma occurred in < 1% of patients.

Perform dermatologic evaluations prior to initiation of TAFINLAR, every 2 months while on therapy, and for up to 6 months following discontinuation of TAFINLAR.

##### Non-Cutaneous Malignancies

Based on its mechanism of action, TAFINLAR may promote the growth and development of malignancies with activation of RAS through mutation or other mechanisms [see *Warnings and Precautions (5.2)*].

In the pooled adult safety populations of TAFINLAR monotherapy and TAFINLAR administered with trametinib [see *Adverse Reactions (6.1)*], non-cutaneous malignancies occurred in 1% of patients.

Monitor patients receiving TAFINLAR for signs or symptoms of non-cutaneous malignancies. Permanently discontinue TAFINLAR for RAS mutation-positive non-cutaneous malignancies [see *Dosage and Administration (2.4)*].

## 5.2 Tumor Promotion in BRAF Wild-Type Tumors

In vitro experiments have demonstrated paradoxical activation of MAP-kinase signaling and increased cell proliferation in BRAF wild-type cells which are exposed to BRAF inhibitors. Confirm evidence of BRAF V600E or V600K mutation status prior to initiation of TAFINLAR as a single agent or in combination with trametinib [see *Indications and Usage (1.6), Dosage and Administration (2.1)*].

## 5.3 Hemorrhage

Hemorrhage, including major hemorrhage defined as symptomatic bleeding in a critical area or organ, can occur when TAFINLAR is administered with trametinib. Fatal cases have been reported.

*TAFINLAR Administered with Trametinib (Adult):* In the pooled safety population [see *Adverse Reactions (6.1)*], hemorrhagic events occurred in 17% of patients; gastrointestinal hemorrhage occurred in 3% of patients; intracranial hemorrhage occurred in 0.6% of patients; fatal hemorrhage occurred in 0.5% of patients. The fatal events were cerebral hemorrhage and brainstem hemorrhage.

*TAFINLAR Administered with Trametinib (Pediatric):* In the pooled safety population, hemorrhagic events occurred in 25% of patients; the most common type of bleeding was epistaxis (16%). Serious events of bleeding occurred in 3.6% of patients and included gastrointestinal hemorrhage (1.2%), cerebral hemorrhage (0.6%), uterine hemorrhage (0.6%), post-procedural hemorrhage (0.6%), and epistaxis (0.6%).

Permanently discontinue TAFINLAR for all Grade 4 hemorrhagic events and for any Grade 3 hemorrhagic events that do not improve. Withhold TAFINLAR for Grade 3 hemorrhagic events; if improved, resume TAFINLAR at the next lower dose level.

## 5.4 Cardiomyopathy

*TAFINLAR Administered with Trametinib (Adult):* In the pooled safety population [see *Adverse Reactions (6.1)*], cardiomyopathy, defined as a decrease in left ventricular ejection fraction (LVEF)  $\geq 10\%$  from baseline and below the institutional lower limit of normal (LLN), occurred in 6% of patients. Development of cardiomyopathy resulted in dose interruption or discontinuation of TAFINLAR in 3% and  $< 1\%$  of patients, respectively. Cardiomyopathy resolved in 45 of 50 patients who received TAFINLAR administered with trametinib.

*TAFINLAR Administered with Trametinib (Pediatric):* In the pooled safety population, cardiomyopathy, defined as a decrease in LVEF  $\geq 10\%$  from baseline and below the institutional LLN, occurred in 9% of patients.

Assess LVEF by echocardiogram or multigated acquisition (MUGA) scan before initiation of TAFINLAR in combination with trametinib, one month after initiation, and then at 2- to 3-month intervals while on treatment. Withhold TAFINLAR for symptomatic cardiomyopathy or an absolute decrease in LVEF of greater than 20% from baseline that is below the institutional LLN. Resume TAFINLAR at the same dose level upon recovery of cardiac function to at least the institutional LLN for LVEF and absolute decrease to less than or equal to 10% compared to baseline [see *Dosage and Administration (2.4)*].

## 5.5 Uveitis

*TAFINLAR Monotherapy (Adult):* In the pooled safety population [see *Adverse Reactions (6.1)*], uveitis occurred in 1% of patients.

Cases of biocular panuveitis or biocular iridocyclitis have been reported in the post-marketing setting.

*TAFINLAR Administered with Trametinib (Adult):* In the pooled safety population [see *Adverse Reactions (6.1)*], uveitis occurred in 2% of patients.

*TAFINLAR Administered with Trametinib (Pediatric):* In the pooled safety population, uveitis occurred in 1.2% of patients.

Treatment employed in clinical trials included steroid and mydriatic ophthalmic drops. Monitor patients for visual signs and symptoms of uveitis (e.g., change in vision, photophobia, eye pain). If iritis is diagnosed, administer ocular therapy and continue TAFINLAR without dose modification. If severe uveitis (i.e., iridocyclitis) or if mild or moderate uveitis does not respond to ocular therapy, withhold TAFINLAR and treat as clinically indicated. Resume TAFINLAR at the same or lower dose if improves to Grade 0 or 1. Permanently discontinue TAFINLAR for persistent Grade 2 or greater uveitis of > 6 weeks [see *Dosage and Administration (2.4)*].

## **5.6 Serious Febrile Reactions**

Serious febrile reactions and fever of any severity complicated by hypotension, rigors or chills, dehydration, or renal failure, can occur with TAFINLAR.

The incidence and severity of pyrexia are increased when TAFINLAR is administered with trametinib compared with TAFINLAR as a single agent [see *Adverse Reactions (6.1)*].

*TAFINLAR Monotherapy (Adult):* In the pooled safety population [see *Adverse Reactions (6.1)*], fever (serious and non-serious) occurred in 30% of patients. Approximately 13% of these patients experienced 3 or more discrete episodes. Serious febrile reactions and fever of any severity complicated by hypotension, rigors or chills occurred in 6% of patients.

*TAFINLAR Administered with Trametinib (Adult):* In the pooled safety population [see *Adverse Reactions (6.1)*], fever occurred in 58% of patients. Serious febrile reactions and fever of any severity complicated by hypotension, rigors or chills, dehydration or renal failure occurred in 5% of patients. Fever was complicated by hypotension in 4%, dehydration in 3%, syncope in 2%, renal failure in 1%, and severe chills/rigors in < 1% of patients.

*TAFINLAR Administered with Trametinib (Pediatric):* In the pooled safety population [see *Adverse Reactions (6.1)*], pyrexia occurred in 66% of patients.

Withhold TAFINLAR when used as monotherapy, and both TAFINLAR and trametinib when used in combination, if the patient's temperature is  $\geq 100.4^{\circ}\text{F}$ . In case of recurrence, therapy can also be interrupted at the first symptom of pyrexia [see *Adverse Reactions (6.1)*]. Fever may be complicated by hypotension, rigors or chills, dehydration, or renal failure. Evaluate for signs and symptoms of infection and monitor serum creatinine and other evidence of renal function during and following severe pyrexia. If appropriate, TAFINLAR, or both TAFINLAR and trametinib when used in combination, may be restarted if the patient has recovered from the febrile reaction for at least 24 hours, either at the same or lower dose [see *Dosage and Administration (2.4)*]. Administer antipyretics as secondary prophylaxis when resuming TAFINLAR if

patient had a prior episode of severe febrile reaction or fever associated with complications. Administer corticosteroids (e.g., prednisone 10 mg daily) for at least 5 days for second or subsequent pyrexia if temperature does not return to baseline within 3 days of onset of pyrexia, or for pyrexia associated with complications, such as dehydration, hypotension, renal failure, or severe chills/rigors, and there is no evidence of active infection.

## **5.7 Serious Skin Toxicities**

Severe cutaneous adverse reactions (SCARs), including Stevens-Johnson syndrome (SJS) and drug reaction with eosinophilia and systemic symptoms (DRESS), which can be life-threatening or fatal, have been reported during treatment with TAFINLAR administered with trametinib [see *Adverse Reactions (6.2)*].

*TAFINLAR Administered with Trametinib (Adult):* In the pooled safety population [see *Adverse Reactions (6.1)*], other serious skin toxicity occurred in < 1% of patients.

*TAFINLAR Administered with Trametinib (Pediatric):* In the pooled safety population, serious adverse events of skin and subcutaneous tissue disorders occurred in 1.8% of patients.

Monitor for new or worsening serious skin reactions. Permanently discontinue TAFINLAR for SCARs [see *Dosage and Administration (2.4)*]. For other skin toxicities, withhold TAFINLAR for intolerable or severe skin toxicity. Resume TAFINLAR at a lower dose in patients with improvement or recovery from skin toxicity within 3 weeks. Permanently discontinue TAFINLAR if skin toxicity has not improved within 3 weeks [see *Dosage and Administration (2.4)*].

## **5.8 Hyperglycemia**

*TAFINLAR Monotherapy (Adult):* In the pooled safety population [see *Adverse Reactions (6.1)*], 14% of patients with a history of diabetes that received TAFINLAR required more intensive hypoglycemic therapy. Grade 3 and Grade 4 hyperglycemia occurred in 3% of patients.

*TAFINLAR Administered with Trametinib (Adult):* In the pooled safety population [see *Adverse Reactions (6.1)*], 15% of patients with a history of diabetes who had received TAFINLAR with trametinib required more intensive hypoglycemic therapy. Grade 3 and Grade 4 hyperglycemia occurred in 2% of patients.

*TAFINLAR Administered with Trametinib (Pediatric):* In the pooled safety population, Grade 3 and Grade 4 hyperglycemia events occurred in < 1% of patients.

Monitor serum glucose levels upon initiation and as clinically appropriate when TAFINLAR is administered in patients with preexisting diabetes or hyperglycemia. Initiate or optimize anti-hyperglycemic medications as clinically indicated.

## **5.9 Glucose-6-Phosphate Dehydrogenase Deficiency**

TAFINLAR, which contains a sulfonamide moiety, confers a potential risk of hemolytic anemia in patients with glucose-6-phosphate dehydrogenase (G6PD) deficiency. Monitor patients with G6PD deficiency for signs of hemolytic anemia while taking TAFINLAR.

## **5.10 Risks Associated with Combination Treatment**

TAFINLAR is indicated for use in combination with trametinib. Review the prescribing information for trametinib for information on the serious risks of trametinib prior to initiation of TAFINLAR with trametinib.

### **5.11 Hemophagocytic Lymphohistiocytosis**

Hemophagocytic lymphohistiocytosis (HLH) has been observed in the post-marketing setting when TAFINLAR was administered with trametinib. If HLH is suspected, interrupt treatment. If HLH is confirmed, discontinue treatment and initiate appropriate management of HLH.

### **5.12 Embryo-Fetal Toxicity**

Based on findings from animal studies and its mechanism of action, TAFINLAR can cause fetal harm when administered to a pregnant woman. Dabrafenib was teratogenic and embryotoxic in rats at doses three times greater than the human exposure at the recommended adult clinical dose. Advise pregnant women of the potential risk to a fetus. Advise female patients of reproductive potential to use effective non-hormonal contraception, since TAFINLAR can render hormonal contraceptives ineffective, during treatment with TAFINLAR and for 2 weeks after the last dose [see *Drug Interactions (7.2), Use in Specific Populations (8.1, 8.3)*].

## **6 ADVERSE REACTIONS**

The following clinically significant adverse reactions are described elsewhere in the labeling:

- New Primary Malignancies [see *Warnings and Precautions (5.1)*]
- Tumor Promotion in BRAF Wild-Type Tumors [see *Warnings and Precautions (5.2)*]
- Hemorrhage [see *Warnings and Precautions (5.3)*]
- Cardiomyopathy [see *Warnings and Precautions (5.4)*]
- Uveitis [see *Warnings and Precautions (5.5)*]
- Serious Febrile Reactions [see *Warnings and Precautions (5.6)*]
- Serious Skin Toxicities [see *Warnings and Precautions (5.7)*]
- Hyperglycemia [see *Warnings and Precautions (5.8)*]
- Glucose-6-Phosphate Dehydrogenase Deficiency [see *Warnings and Precautions (5.9)*]
- Hemophagocytic Lymphohistiocytosis [see *Warnings and Precautions (5.11)*]

There are additional adverse reactions associated with trametinib. Refer to the trametinib prescribing information for additional information.

### **6.1 Clinical Trials Experience**

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

#### Adult Safety Pools

The pooled safety population described in the WARNINGS AND PRECAUTIONS reflects exposure to TAFINLAR 150 mg orally, twice daily as a single agent in 586 patients with various solid tumors, including BRAF V600 mutation-positive unresectable or metastatic

melanoma, enrolled in BREAK-2, BREAK-3, BREAK-MB, BRF113220, and BRF112680. Among these 586 patients who received TAFINLAR as a single agent, 46% were exposed for 6 months or longer and 15% were exposed for greater than one year.

The pooled safety population described in the WARNINGS AND PRECAUTIONS reflects exposure to TAFINLAR 150 mg orally, twice daily, administered in combination with trametinib 2 mg orally, once daily, in 1087 patients enrolled in COMBI-d, COMBI-v, COMBI-AD, and BRF113928 with unresectable or metastatic melanoma, adjuvant melanoma, or NSCLC. Among these 1087 patients who received TAFINLAR administered with trametinib, 70% were exposed for 6 months or longer and 21% were exposed for greater than one year.

### Pediatric Safety Pool

The pediatric pooled safety population described in the WARNINGS AND PRECAUTIONS reflects exposure to weight-based TAFINLAR orally, twice daily administered in combination with trametinib in 166 pediatric patients across two trials: a multi-center, open-label, multi-cohort study in pediatric patients with BRAF V600E mutation-positive glioma requiring systemic therapy (Study G2201; n = 123) and a multi-center, open-label, multi-cohort study in pediatric patients with refractory or recurrent solid tumors with MAPK pathway activation (Study X2101; n = 43) [see *Clinical Studies (14.6, 14.7)*]. Among 166 patients who received TAFINLAR administered with trametinib, 84% were exposed for 6 months or longer and 70% were exposed for greater than one year. The most common (> 20%) adverse reactions were pyrexia (66%), rash (54%), headache (40%), vomiting (38%), musculoskeletal pain (36%), fatigue (31%), dry skin (31%), diarrhea (30%), nausea (26%), epistaxis and other bleeding events (25%), abdominal pain (24%), and dermatitis acneiform (23%). The most common (> 2%) Grade 3 or 4 laboratory abnormalities were decreased neutrophil count (20%), increased alanine aminotransferase (3.1%), and increased aspartate aminotransferase (3.1%).

### Unresectable or Metastatic BRAF V600E or V600K Mutation-Positive Melanoma

#### *TAFINLAR as a Single Agent*

The safety of TAFINLAR was evaluated in BREAK-3, a multi-center, international, open-label, randomized (3:1), controlled trial that allocated 250 patients with unresectable or metastatic BRAF V600E mutation-positive melanoma to receive TAFINLAR 150 mg orally twice daily (n = 187) or dacarbazine 1000 mg/m<sup>2</sup> intravenously every 3 weeks (n = 63) [see *Clinical Studies (14.1)*]. The trial excluded patients with abnormal LVEF or cardiac valve morphology (≥ Grade 2), corrected QT interval ≥ 480 milliseconds on electrocardiogram, or a known history of G6PD deficiency. The median duration on treatment was 4.9 months for patients treated with TAFINLAR and 2.8 months for dacarbazine-treated patients. The population exposed to TAFINLAR was 60% male, 99% White, and had a median age of 53 years.

The most common adverse reactions (≥ 20%) in patients treated with TAFINLAR were, in order of decreasing frequency: hyperkeratosis, headache, pyrexia, arthralgia, papilloma, alopecia, and palmar-plantar erythrodysesthesia syndrome (PPES).

The incidence of adverse events resulting in permanent discontinuation of study medication in the BREAK-3 study was 3% for patients treated with TAFINLAR and 3% for patients treated with dacarbazine. The most frequent (≥ 2%) adverse reactions leading to dose reduction of TAFINLAR were pyrexia (9%), PPES (3%), chills (3%), fatigue (2%), and headache (2%). Table 6 and Table 7 present adverse reactions and laboratory

abnormalities, respectively, of TAFINLAR as a single agent in the BREAK-3 study.

**Table 6. Select Adverse Reactions Occurring in  $\geq 10\%$  (All Grades) or  $\geq 2\%$  (Grades 3 or 4) of Patients Treated with TAFINLAR in the BREAK-3 Study<sup>a</sup>**

Adverse Reactions	TAFINLAR N = 187		Dacarbazine N = 59	
	All Grades (%)	Grades 3 and 4 <sup>b</sup> (%)	All Grades (%)	Grades 3 and 4 (%)
<b>Skin and subcutaneous tissue</b>				
Hyperkeratosis	37	1	0	0
Alopecia	22	NA	2	NA
Palmar-plantar erythrodysesthesia syndrome	20	2	2	0
Rash	17	0	0	0
<b>Nervous system</b>				
Headache	32	0	8	0
<b>General</b>				
Pyrexia	28	3	10	0
<b>Musculoskeletal and connective tissue</b>				
Arthralgia	27	1	2	0
Back pain	12	3	7	0
Myalgia	11	0	0	0
<b>Neoplasms</b>				
Papilloma <sup>c</sup>	27	0	2	0
cuSCC <sup>d</sup>	7	4	0	0
<b>Respiratory system</b>				
Cough	12	0	5	0
<b>Gastrointestinal</b>				
Constipation	11	2	14	0
<b>Infections and infestations</b>				
Nasopharyngitis	10	0	3	0

Abbreviations: cuSCC, cutaneous squamous cell carcinoma, includes squamous cell carcinoma of the skin and keratoacanthoma; NA, not applicable.

<sup>a</sup> Adverse reactions, reported using MedDRA and graded using NCI CTCAE version 4.0 for assessment of toxicity.

<sup>b</sup> Grade 4 adverse reactions limited to hyperkeratosis (n = 1) and constipation (n = 1).

<sup>c</sup> Includes skin papilloma and papilloma.

<sup>d</sup> Cases of cuSCC were required to be reported as Grade 3 per protocol.

**Table 7. Laboratory Abnormalities Worsening from Baseline Occurring at a Higher Incidence in Patients Treated with TAFINLAR in the BREAK-3 Study [Between-Arm Difference of  $\geq 5\%$  (All Grades) or  $\geq 2\%$**

**(Grades 3 or 4)]<sup>a</sup>**

<b>Laboratory Abnormality</b>	<b>TAFINLAR N = 187</b>		<b>Dacarbazine N = 59</b>	
	<b>All Grades (%)</b>	<b>Grades 3 and 4 (%)</b>	<b>All Grades (%)</b>	<b>Grades 3 and 4 (%)</b>
Hyperglycemia	50	6	43	0
Hypophosphatemia	37	6 <sup>b</sup>	14	2
Increased alkaline phosphatase	19	0	14	2
Hyponatremia	8	2	3	0

<sup>a</sup> Adverse reactions, reported using MedDRA and graded using NCI CTCAE version 4.0 for assessment of toxicity.

<sup>b</sup> Grade 4 laboratory abnormality limited to hypophosphatemia (n = 1).

Other clinically important adverse reactions for TAFINLAR in a pool of TAFINLAR monotherapy clinical studies observed in less than 10% of patients who received TAFINLAR were:

*Gastrointestinal:* Pancreatitis

*Immune System:* Hypersensitivity manifesting as bullous rash

*Nervous System:* Peripheral neuropathy

*Renal and Urinary:* Interstitial nephritis

*Skin and Subcutaneous Tissue:* Photosensitivity

*TAFINLAR with Trametinib*

The safety of TAFINLAR when administered with trametinib was evaluated in 559 patients with previously untreated, unresectable or metastatic, BRAF V600E or V600K mutation-positive melanoma who received TAFINLAR in two trials, the COMBI-d study (n = 209), a multi-center, double-blind, randomized (1:1), active-controlled trial and the COMBI-v study (n = 350), a multi-center, open-label, randomized (1:1), active-controlled trial. In both trials, patients received TAFINLAR 150 mg orally twice daily and trametinib 2 mg orally once daily until disease progression or unacceptable toxicity. Both trials excluded patients with abnormal LVEF, history of acute coronary syndrome within 6 months, history of Class II or greater congestive heart failure (New York Heart Association), history of retinal vein occlusion (RVO) or retinal pigment epithelial detachment (RPED), QTcB interval  $\geq$  480 msec, treatment refractory hypertension, uncontrolled arrhythmias, active brain metastases, or known history of G6PD deficiency [see *Clinical Studies (14.2)*].

Among these 559 patients, 199 (36%) were exposed to TAFINLAR for > 6 months to 12 months while 185 (33%) were exposed to TAFINLAR for  $\geq$  1 year. The median age was 55 years (range: 18 to 91), 57% were male, 98% were White, 72% had baseline ECOG performance status of 0 and 28% had ECOG performance status of 1, 64% had M1c disease, 35% had elevated lactate dehydrogenase (LDH) at baseline, and 0.5% had a history of brain metastases.

The most common adverse reactions ( $\geq$  20%) for TAFINLAR in patients who received

TAFINLAR plus trametinib in the COMBI-d and COMBI-v studies were: pyrexia, rash, chills, headache, arthralgia, and cough. The demographics and baseline tumor characteristics of patients enrolled in the COMBI-d study are summarized in Clinical Studies [see *Clinical Studies (14.2)*]. Patients who received TAFINLAR plus trametinib had a median duration of exposure of 11 months (range: 3 days to 30 months) to TAFINLAR. Among the 209 patients who received TAFINLAR plus trametinib, 26% were exposed to TAFINLAR for > 6 months to 12 months while 46% were exposed to TAFINLAR for > 1 year.

In the COMBI-d study, adverse reactions leading to discontinuation of TAFINLAR occurred in 11% of patients who received TAFINLAR plus trametinib; the most frequent was pyrexia (1.9%). Adverse reactions leading to dose reductions of TAFINLAR occurred in 26% of patients who received TAFINLAR plus trametinib; the most frequent were pyrexia (14%), neutropenia (1.9%), rash (1.9%), and chills (1.9%). Adverse reactions leading to dose interruptions of TAFINLAR occurred in 56% of patients who received TAFINLAR plus trametinib; the most frequent were pyrexia (35%), chills (11%), vomiting (7%), nausea (5%), and decreased ejection fraction (5%).

Table 8 and Table 9 present adverse reactions and laboratory abnormalities, respectively, observed in the COMBI-d study.

**Table 8. Select Adverse Reactions Occurring in  $\geq$  10% (All Grades) of Patients Treated with TAFINLAR Administered with Trametinib in the COMBI-d Study<sup>a</sup>**

Adverse Reactions	Pooled TAFINLAR plus Trametinib N = 559		COMBI-d Study			
	All Grades (%)	Grades 3 and 4 <sup>b</sup> (%)	TAFINLAR plus Trametinib N = 209		TAFINLAR N = 211	
			All Grades (%)	Grades 3 and 4 (%)	All Grades (%)	Grades 3 and 4 (%)
<b>General</b>						
Pyrexia	54	5	57	7	33	1.9
Chills	31	0.5	31	0	17	0.5
<b>Skin and subcutaneous tissue</b>						
Rash <sup>c</sup>	32	1.1	42	0	27	1.4
Dry skin	10	0	12	0	16	0
<b>Nervous system</b>						
Headache	30	0.9	33	0.5	30	1.4
Dizziness	11	0.2	14	0	7	0
<b>Musculoskeletal and connective tissue</b>						
Arthralgia	25	0.9	26	0.9	31	0
Myalgia	15	0.2	13	0.5	13	0
<b>Respiratory system</b>						
Cough	20	0	21	0	21	0
<b>Gastrointestinal</b>						

Constipation	13	0.2	13	0.5	10	0
<b>Infections and infestations</b>						
Nasopharyngitis	12	0	12	0	10	0

<sup>a</sup> NCI CTCAE version 4.0.

<sup>b</sup> Grade 4 adverse reactions limited to headache (n = 1).

<sup>c</sup> Includes rash generalized, rash pruritic, rash erythematous, rash papular, rash vesicular, rash macular, rash maculo-papular, and rash follicular.

Other clinically important adverse reactions for TAFINLAR across the COMBI-d and COMBI-v studies (N = 559) observed in less than 10% of patients who received TAFINLAR administered with trametinib were:

*Cardiac:* Atrioventricular block, bundle branch block

*Gastrointestinal:* Colitis, gastrointestinal perforation, pancreatitis

*Immune System:* Sarcoidosis

*Nervous System:* Peripheral neuropathy, Guillain-Barré syndrome

*Skin and Subcutaneous Tissue:* Panniculitis, photosensitivity

**Table 9. Select Laboratory Abnormalities Worsening from Baseline Occurring at  $\geq$  10% (All Grades) of Patients Who Received TAFINLAR with Trametinib in the COMBI-d Study**

Laboratory Abnormalities	Pooled TAFINLAR plus Trametinib N = 559 <sup>a</sup>		COMBI-d Study			
			TAFINLAR plus Trametinib N = 209 <sup>b</sup>		TAFINLAR N = 211 <sup>b</sup>	
	All Grades (%)	Grades 3 and 4 <sup>c</sup> (%)	All Grades (%)	Grades 3 and 4 <sup>c</sup> (%)	All Grades (%)	Grades 3 and 4 <sup>c</sup> (%)
<b>Chemistry</b>						
Hyperglycemia	60	4.7	65	6	57	4.3
Hypophosphatemia	38	6	38	3.8	35	7
Hyponatremia	25	8	24	6	14	2.9
<b>Hepatic</b>						
Increased blood alkaline phosphatase	49	2.7	50	1.0	25	0.5

<sup>a</sup> For these laboratory tests, the denominator is 556.

<sup>b</sup> For these laboratory tests, the denominator is 208 for the combination arm, 208-209 for the TAFINLAR arm.

<sup>c</sup> Grade 4 adverse reactions limited to hyperglycemia (n = 4), hyponatremia and hypophosphatemia (each n = 1) in the pooled combination arm; hyperglycemia (n = 1) in the COMBI-d study combination arm; hypophosphatemia (n = 1) in the TAFINLAR arm.

## Adjuvant Treatment of BRAF V600E or V600K Mutation-Positive Melanoma

The safety of TAFINLAR when administered with trametinib was evaluated in 435 patients with Stage III melanoma with BRAF V600E or V600K mutations following complete resection who received at least one dose of study therapy in the COMBI-AD study [see *Clinical Studies (14.3)*]. Patients received TAFINLAR 150 mg orally twice daily and trametinib 2 mg orally once daily for 12 months. The trial excluded patients with abnormal LVEF; history of acute coronary syndromes, coronary angioplasty, or stenting within 6 months; Class II or greater congestive heart failure (New York Heart Association); QTc interval  $\geq$  480 msec; treatment refractory hypertension; uncontrolled arrhythmias; or history of RVO.

Patients who received TAFINLAR in combination with trametinib had a median duration of exposure of 11 months (range: 0 to 12) to TAFINLAR. Among the 435 patients receiving TAFINLAR in combination with trametinib, 71% were exposed to TAFINLAR for > 6 months. The median age of patients who received TAFINLAR administered with trametinib was 50 years (range: 18 to 89), 56% were male, 99% were White, 92% had baseline ECOG performance status of 0, and 8% had baseline ECOG performance status of 1.

The most common adverse reactions ( $\geq$  20%) in patients who received TAFINLAR administered with trametinib were: pyrexia, fatigue, nausea, headache, rash, chills, diarrhea, vomiting, arthralgia, and myalgia.

Adverse reactions resulting in discontinuation, dose reduction, or dose interruption of TAFINLAR occurred in 25%, 35%, and 66% of patients, respectively; the most frequent for each were pyrexia and chills.

Table 10 summarizes the adverse reactions that occurred in at least 20% of patients who received TAFINLAR administered with trametinib.

**Table 10. Adverse Reactions Occurring in  $\geq$  20% of Patients in the COMBI-AD Study<sup>a</sup>**

Adverse Reactions	TAFINLAR plus Trametinib N = 435		Placebo N = 432	
	All Grades (%)	Grades 3 and 4 (%)	All Grades (%)	Grades 3 and 4 (%)
<b>General</b>				
Pyrexia <sup>b</sup>	63	5	11	< 1
Fatigue <sup>c</sup>	59	5	37	< 1
Chills	37	1	4	0
<b>Gastrointestinal</b>				
Nausea	40	< 1	20	0
Diarrhea	33	< 1	15	< 1
Vomiting	28	< 1	10	0
<b>Nervous system</b>				
Headache <sup>d</sup>	39	1	24	0
<b>Skin and subcutaneous tissue</b>				

Rash <sup>e</sup>	37	< 1	16	< 1
<b>Musculoskeletal and connective tissue</b>				
Arthralgia	28	< 1	14	0
Myalgia <sup>f</sup>	20	< 1	14	0

<sup>a</sup> NCI CTCAE version 4.0.

<sup>b</sup> Includes pyrexia and hyperpyrexia.

<sup>c</sup> Includes fatigue, asthenia, and malaise.

<sup>d</sup> Includes headache and tension headache.

<sup>e</sup> Includes rash, rash maculo-papular, rash macular, rash generalized, rash erythematous, rash papular, rash pruritic, nodular rash, rash vesicular, and rash pustular.

<sup>f</sup> Includes myalgia, musculoskeletal pain, and musculoskeletal chest pain.

Other clinically important adverse reactions for TAFINLAR in the COMBI-AD study observed in less than 20% of patients who received TAFINLAR administered with trametinib were: blurred vision (6%), decreased ejection fraction (5%), peripheral neuropathy (2.5%), rhabdomyolysis (< 1%), atrioventricular block (< 1%), Guillain-Barré syndrome (< 1%), and sarcoidosis (< 1%).

The laboratory abnormalities are summarized in Table 11.

**Table 11. Laboratory Abnormalities Worsening from Baseline Occurring in ≥ 20% of Patients in the COMBI-AD Study**

Laboratory Abnormality	TAFINLAR plus Trametinib <sup>a</sup> N = 435		Placebo <sup>a</sup> N = 432	
	All Grades (%)	Grades 3 and 4 (%)	All Grades (%)	Grades 3 and 4 (%)
<b>Chemistry</b>				
Hyperglycemia	63	3	47	2
Hypophosphatemia	42	7	10	< 1
Hypoalbuminemia	25	< 1	< 1	0
<b>Hepatic</b>				
Increased AST	57	6	11	< 1
Increased ALT	48	5	18	< 1
Increased blood alkaline phosphatase	38	1	6	< 1
<b>Hematology</b>				
Neutropenia	47	6	12	< 1
Lymphopenia	26	5	6	< 1
Anemia	25	< 1	6	< 1

Abbreviations: ALT, alanine aminotransferase; AST, aspartate aminotransferase.

<sup>a</sup> The incidence is based on the number of patients who had both a baseline and at least one on-study laboratory measurement:

TAFINLAR plus Trametinib (range: 429 to 431) and Placebo arm (range: 426 to 428).

## Trial COMBI-aPlus (Pyrexia Management Study)

COMBI-aPlus evaluated the impact of pyrexia-related outcomes of a revised pyrexia management algorithm in patients who received dabrafenib administered with trametinib in the adjuvant treatment of BRAF V600 mutation-positive melanoma after complete resection. The pyrexia management algorithm interrupted both dabrafenib and trametinib when patient's temperature is  $\geq 100.4^{\circ}\text{F}$ .

Grade 3-4 pyrexia occurred in 4.3% of patients, hospitalizations due to pyrexia occurred in 5.1% of patients, pyrexia with complications (dehydration, hypotension, renal dysfunction, syncope, severe chills) occurred in 2.2% of patients, and treatment discontinuation due to pyrexia occurred in 2.5% of patients.

## Metastatic, BRAF V600E Mutation-Positive Non-Small Cell Lung Cancer

The safety of TAFINLAR when administered with trametinib was evaluated in 93 patients with previously untreated (n = 36) and previously treated (n = 57) metastatic BRAF V600E mutation-positive NSCLC in a multi-center, multi-cohort, non-randomized, open-label trial (Study BRF113928). Patients received TAFINLAR 150 mg orally twice daily and trametinib 2 mg orally once daily until disease progression or unacceptable toxicity. The trial excluded patients with abnormal LVEF, history of acute coronary syndrome within 6 months, history of Class II or greater congestive heart failure (New York Heart Association), QTc interval  $\geq 480$  msec, treatment refractory hypertension, uncontrolled arrhythmias, active brain metastases, history of interstitial lung disease or pneumonitis, or history or current RVO [see *Clinical Studies (14.4)*].

Among these 93 patients, 53 (57%) were exposed to TAFINLAR and trametinib for  $> 6$  months and 27 (29%) were exposed to TAFINLAR and trametinib for  $\geq 1$  year. The median age was 65 years (range: 41 to 91); 46% were male; 85% were White; 32% had baseline ECOG performance status of 0 and 61% had ECOG performance status of 1; 98% had non-squamous histology; and 12% were current smokers, 60% were former smokers, and 28% had never smoked.

The most common adverse reactions ( $\geq 20\%$ ) in these 93 patients were: pyrexia, fatigue, nausea, vomiting, diarrhea, dry skin, decreased appetite, edema, rash, chills, hemorrhage, cough, and dyspnea.

Adverse reactions leading to discontinuation of TAFINLAR occurred in 18% of patients; the most frequent were pyrexia (2.2%), decreased ejection fraction (2.2%), and respiratory distress (2.2%). Adverse reactions leading to dose reductions of TAFINLAR occurred in 35% of patients; the most frequent were pyrexia (10%), diarrhea (4.3%), nausea (4.3%), vomiting (4.3%), and neutropenia (3.2%). Adverse reactions leading to dose interruptions of TAFINLAR occurred in 62% of patients; the most frequent were pyrexia (27%), vomiting (11%), neutropenia (8%), and chills (6%).

Table 12 and Table 13 present adverse reactions and laboratory abnormalities, respectively, of TAFINLAR administered with trametinib in Study BRF113928.

**Table 12. Adverse Reactions Occurring in  $\geq 20\%$  (All Grades) of Patients Treated with TAFINLAR Administered with Trametinib in Study BRF113928<sup>a</sup>**

Adverse Reactions	TAFINLAR plus Trametinib N = 93	
	All	Grades

	<b>Grades (%)</b>	<b>3 and 4 (%)</b>
<b>General</b>		
Pyrexia	55	5
Fatigue <sup>b</sup>	51	5
Edema <sup>c</sup>	28	0
Chills	23	1.1
<b>Gastrointestinal</b>		
Nausea	45	0
Vomiting	33	3.2
Diarrhea	32	2.2
Decreased appetite	29	0
<b>Skin and subcutaneous tissue</b>		
Dry skin	31	1.1
Rash <sup>d</sup>	28	3.2
<b>Vascular</b>		
Hemorrhage <sup>e</sup>	23	3.2
<b>Respiratory system</b>		
Cough	22	0
Dyspnea	20	5

<sup>a</sup> NCI CTCAE version 4.0.

<sup>b</sup> Includes fatigue, malaise, and asthenia.

<sup>c</sup> Includes peripheral edema, edema, and generalized edema.

<sup>d</sup> Includes rash, rash generalized, rash papular, rash macular, rash maculo-papular, and rash pustular.

<sup>e</sup> Includes hemoptysis, hematoma, epistaxis, purpura, hematuria, subarachnoid hemorrhage, gastric hemorrhage, urinary bladder hemorrhage, contusion, hematochezia, injection site hemorrhage, pulmonary hemorrhage, and retroperitoneal hemorrhage.

Other clinically important adverse reactions for TAFINLAR in Study BRF113928 observed in less than 20% of patients who received TAFINLAR administered with trametinib were:

*Cardiac:* Atrioventricular block

*Gastrointestinal:* Pancreatitis

*Nervous System:* Peripheral neuropathy

*Renal and Urinary:* Tubulointerstitial nephritis

**Table 13. Treatment-Emergent Laboratory Abnormalities Occurring in  $\geq$  20% (All Grades) of Patients Who Received TAFINLAR with Trametinib in Study BRF113928**

<b>Laboratory Abnormality</b>	<b>TAFINLAR plus Trametinib N = 93</b>	
	<b>All Grades</b>	<b>Grades 3 and 4</b>

	(%)	(%)
<b>Chemistry<sup>a</sup></b>		
Hyperglycemia	71	9
Hyponatremia	57	17
Hypophosphatemia	36	7
Increased creatinine	21	1.1
<b>Hepatic<sup>a</sup></b>		
Increased blood alkaline phosphatase	64	0
Increased AST	61	4.4
Increased ALT	32	6
<b>Hematology<sup>b</sup></b>		
Leukopenia	48	8
Anemia	46	10
Neutropenia	44	8
Lymphopenia	42	14

Abbreviations: ALT, alanine aminotransferase; AST, aspartate aminotransferase.

<sup>a</sup> For these laboratory tests, the denominator is 90.

<sup>b</sup> For these laboratory tests, the denominator is 91.

## Advanced BRAF V600E Mutation-Positive Tumors

### *Study BRF117019*

The safety of TAFINLAR when administered with trametinib was evaluated in a multi-cohort, multi-center, non-randomized, open-label study in adult patients with cancers with the BRAF V600E mutation (Study BRF117019). A total of 206 patients were enrolled in the trial, 36 of whom were enrolled in the ATC cohort, 105 were enrolled in specific solid tumor cohorts, and 65 in other malignancies [see *Clinical Studies (14.5, 14.6)*]. Patients received TAFINLAR 150 mg orally twice daily and trametinib 2 mg orally once daily until disease progression or unacceptable toxicity.

Among these 206 patients, 103 (50%) were exposed to TAFINLAR for  $\geq 1$  year and 101 (49%) were exposed to trametinib for  $\geq 1$  year. The median age was 60 years (range: 18 to 89); 56% were male; 79% were White; and 34% had baseline ECOG performance status of 0 and 60% had ECOG performance status of 1.

Serious adverse reactions occurred in 45% of patients who received TAFINLAR in combination with trametinib. Serious adverse reactions in  $> 5\%$  of patients included pyrexia (11%) and pneumonia (6%). Fatal adverse reactions occurred in 3.9% of patients who received TAFINLAR in combination with trametinib. Fatal adverse reactions that occurred in  $> 1\%$  of patients included sepsis (1.9%).

Permanent treatment discontinuation due to an adverse reaction occurred in 13% of patients. Adverse reactions which resulted in permanent treatment discontinuation in  $> 1\%$  of patients included nausea (1.5%).

Dosage interruptions due to an adverse reaction occurred in 55% of patients. Adverse reactions which required dosage interruption in  $> 5\%$  of patients included pyrexia (22%), chills (9%), fatigue (6%), neutropenia (6%), and nausea (5%).

Dose reductions due to an adverse reaction occurred in 44% of patients. Adverse

reactions which required dose reductions in > 5% of patients included pyrexia (18%), chills (8%), and fatigue (6%).

The most common ( $\geq 20\%$ ) adverse reactions, including laboratory abnormalities, are listed in Table 14 and Table 15.

Table 14 summarizes the adverse reactions in Study BRF117019.

**Table 14. Adverse Reactions ( $\geq 20\%$ )  
in Adult Patients Treated with  
TAFINLAR Plus Trametinib in Study  
BRF117019**

Adverse Reactions	TAFINLAR plus Trametinib <sup>a</sup> (N = 206)	
	All Grades (%)	Grade 3 or 4 (%)
<b>General</b>		
Pyrexia	55	4.9
Fatigue <sup>b</sup>	50	5
Chills	30	0.5
Peripheral edema <sup>c</sup>	22	0
<b>Gastrointestinal</b>		
Nausea	40	1.5
Constipation	27	0
Vomiting	27	1.5
Diarrhea	26	2.9
<b>Skin and subcutaneous tissue</b>		
Rash <sup>d</sup>	40	2.4
<b>Nervous system</b>		
Headache	30	1.5
<b>Vascular</b>		
Hemorrhage <sup>e</sup>	29	4.4
<b>Respiratory system</b>		
Cough <sup>f</sup>	29	0
<b>Musculoskeletal and connective tissue</b>		
Myalgia <sup>g</sup>	24	0.5
Arthralgia	23	0.5

<sup>a</sup>NCI CTCAE version 4.0.

<sup>b</sup>Includes fatigue, asthenia, and malaise.

<sup>c</sup>Includes peripheral edema and peripheral swelling.

<sup>d</sup>Includes rash, rash maculo-papular, rash erythematous, rash pustular, and rash papular.

<sup>e</sup>Includes epistaxis, hematuria, contusion,

hematoma, hemoptysis, conjunctival hemorrhage, hematochezia, rectal hemorrhage, hemorrhoidal hemorrhage, melena, purpura, eye contusion, eye hemorrhage, gastric hemorrhage, gingival bleeding, hematemesis, hemorrhage intracranial, hemorrhagic stroke, hemothorax, increased tendency to bruise, large intestinal hemorrhage, mouth hemorrhage, petechiae, pharyngeal hemorrhage, prothrombin time prolonged, pulmonary hematoma, retinal hemorrhage, vaginal hemorrhage, and vitreous hemorrhage.

<sup>f</sup>Includes cough and productive cough.

<sup>g</sup>Includes myalgia, musculoskeletal chest pain, and musculoskeletal pain.

Clinically relevant adverse reactions for TAFINLAR in Study BRF117019 observed in less than 20% of patients who received TAFINLAR in combination with trametinib were: peripheral neuropathy (9%), decreased ejection fraction (8%), atrioventricular block (2.9%), uveitis (1.9%), hypersensitivity (1.9%), and Guillain-Barré syndrome (< 1%).

Table 15 summarizes the laboratory abnormalities in Study BRF117019.

**Table 15. Select Laboratory Abnormalities (≥ 20%) That Worsened from Baseline in Adult Patients Treated with TAFINLAR Plus Trametinib in Study BRF117019**

Laboratory Abnormality	TAFINLAR plus Trametinib <sup>a</sup>	
	All Grades (%)	Grade 3 or 4 (%)
<b>Chemistry</b>		
Hyperglycemia	61	8
Decreased sodium	35	10
Decreased magnesium	24	0
Increased creatinine	21	1.5
<b>Hepatic</b>		
Increased alkaline phosphatase	51	5
Increased AST	51	4.6
Increased ALT	39	3
<b>Hematology</b>		
Decreased hemoglobin	44	9

Abbreviations: ALT, alanine aminotransferase; AST, aspartate aminotransferase.

<sup>a</sup> The denominator used to calculate the rate varied from 199 to 202 based on the number of patients with a baseline value and at least one post-treatment value.

### Study CTMT212X2101 (X2101)

The safety of TAFINLAR when administered with trametinib was evaluated in Study X2101, a multi-center, open-label, multi-cohort study in pediatric patients (n = 48) with refractory or recurrent solid tumors [see *Clinical Studies (14.6)*]. The median duration of exposure to TAFINLAR in Parts C (dose escalation) and D (cohort expansion) was 20.8 and 24.9 months, respectively. The median duration of exposure to trametinib in Parts C and D was 20.8 and 24.4 months, respectively. The median age of pediatric patients who received TAFINLAR with trametinib was 9 years (range: 1 to 17).

Serious adverse reactions occurred in 46% of patients who received TAFINLAR in combination with trametinib. Serious adverse reactions in > 5% of patients included pyrexia (25%) and decreased ejection fraction (6%). Permanent treatment discontinuation due to an adverse reaction occurred in 21% of patients. Adverse reactions which resulted in permanent treatment discontinuation in > 3% of patients included increased ALT (6%), increased AST (4.2%) and decreased ejection fraction (4.2%). Dosage interruptions due to an adverse reaction occurred in 73% of patients. Adverse reactions which required dosage interruption in > 5% of patients included pyrexia (56%), vomiting (19%), neutropenia (13%), rash (13%), decreased ejection fraction (6%), and uveitis (6%). Dose reductions due to an adverse reaction occurred in 25% of patients. Adverse reactions which required dose reductions in > 5% of patients included pyrexia (13%).

The most common ( $\geq 20\%$ ) adverse reactions, including laboratory abnormalities, are listed in Table 16 and Table 17.

Table 16 summarizes the adverse reactions in Study X2101.

**Table 16. Adverse Reactions ( $\geq 20\%$ ) in Pediatric Patients Treated with TAFINLAR Plus Trametinib in Study X2101<sup>a</sup>**

Adverse Reactions	TAFINLAR plus Trametinib <sup>a</sup> (N = 48)	
	All Grades (%)	Grade 3 or 4 (%)
<b>General</b>		
Pyrexia	75	17
Fatigue <sup>b</sup>	48	0
<b>Skin and subcutaneous tissue</b>		
Rash <sup>c</sup>	73	2.1
Dry skin	48	0
Dermatitis acneiform <sup>d</sup>	40	0
<b>Gastrointestinal</b>		
Vomiting	52	4.2
Diarrhea	42	2.1
Abdominal pain <sup>e</sup>	33	4.2
Nausea	33	2.1
Constipation	23	0
<b>Respiratory system</b>		

Cough	44	0
<b>Nervous system</b>		
Headache	35	0
<b>Vascular</b>		
Hemorrhage <sup>f</sup>	33	0
<b>Infections and infestations</b>		
Paronychia	23	0

<sup>a</sup> NCI CTCAE version 4.0.

<sup>b</sup> Includes fatigue, asthenia, and malaise.

<sup>c</sup> Includes rash, rash maculo-papular, rash erythematous, rash papular, rash pustular, and rash macular.

<sup>d</sup> Includes dermatitis acneiform and acne.

<sup>e</sup> Includes abdominal pain and abdominal pain upper.

<sup>f</sup> Includes epistaxis, hematuria, contusion, hematoma, petechiae, rectal hemorrhage, and red blood cell count decreased.

Clinically relevant adverse reactions for TAFINLAR in Study X2101 observed in less than 20% of patients (N=48) who received TAFINLAR in combination with trametinib were: atrioventricular block (2.1%).

Table 17 summarizes the laboratory abnormalities in Study X2101.

**Table 17. Select Laboratory Abnormalities ( $\geq 20\%$ ) That Worsened from Baseline in Pediatric Patients Treated with TAFINLAR Plus Trametinib in Study X2101**

Laboratory Abnormality	TAFINLAR plus Trametinib <sup>a</sup>	
	All Grades (%)	Grade 3 or 4 (%)
<b>Chemistry</b>		
Hyperglycemia	65	2.2
Hypoalbuminemia	48	2.1
Hypocalcemia	40	2.1
Decreased phosphate	38	0
Decreased magnesium	33	2.1
Hypernatremia	27	0
Hypokalemia	21	2.1
<b>Hepatic</b>		
Increased AST	55	4.2
Increased ALT	40	6
Increased alkaline phosphatase	28	6
Increased total bilirubin	21	2.1
<b>Hematology</b>		
Decreased hemoglobin	60	6
Decreased neutrophils	49	28

Abbreviations: ALT, alanine aminotransferase; AST, aspartate aminotransferase.

<sup>a</sup>The denominator used to calculate the rate varied from 39 to 48 based on the number

of patients with a baseline value and at least one post-treatment value.

## BRAF V600E Mutation-Positive Low-Grade Glioma in Pediatric Patients

### *Study CDRB436G2201 (G2201)*

The safety of TAFINLAR in combination with trametinib was evaluated in pediatric patients 1 to < 18 years of age in Study G2201. Patients with low-grade glioma (LGG) who required first systemic therapy were randomized (2:1) to TAFINLAR plus trametinib (n = 73) or carboplatin plus vincristine (n = 33). Nine patients crossed over from the carboplatin plus vincristine arm to the TAFINLAR and trametinib arm. Pediatric patients received weight-based TAFINLAR orally twice daily administered in combination with trametinib until disease progression or intolerable toxicity. Patients in the control arm received carboplatin and vincristine at doses of 175 mg/m<sup>2</sup> and 1.5 mg/m<sup>2</sup>, respectively in 10-week induction course followed by eight 6-week cycles of maintenance therapy or until disease progression or intolerable toxicity. Among patients with low-grade glioma who were randomized to TAFINLAR plus trametinib (n = 73), 95% were exposed for 6 months or longer and 71% were exposed for greater than one year.

The median age of these patients was 10 years (range: 1 to 17); 60% female; 75% White, 7% Asian, 2.7% Black or African American, 4% other race, and 11% where race was unknown or not reported.

Serious adverse reactions occurred in 40% of these patients. Serious adverse reactions in > 3% of patients included pyrexia (14%) and vomiting (4%).

Permanent discontinuation of TAFINLAR due to an adverse reaction occurred in 4% of patients. Adverse reactions which resulted in permanent discontinuation of TAFINLAR included chills, fatigue, pyrexia, weight increased, and headache.

Dosage interruptions of TAFINLAR due to an adverse reaction occurred in 73% of patients. Adverse reactions which required dosage interruption in > 5% of patients included pyrexia (53%).

Dose reductions of TAFINLAR due to an adverse reaction occurred in 48% of patients. Adverse reactions which required dose reductions in > 2% of patients included rash (2.7%). The most common ( $\geq 15\%$ ) adverse reactions were pyrexia (68%), rash (51%), headache (47%), vomiting (34%), musculoskeletal pain (34%), fatigue (33%), diarrhea (29%), dry skin (26%), nausea (25%), hemorrhage (25%), abdominal pain (25%), dermatitis acneiform (22%), dizziness (15%), upper respiratory tract infection (15%), and weight increased (15%).

The most common ( $\geq 20\%$ ) laboratory abnormalities that worsened from baseline were leukopenia (59%), increased alkaline phosphatase (55%), anemia (46%), decreased neutrophils (44%), increased AST (37%), decreased magnesium (34%), increased magnesium (32%), decreased platelets (30%), increased ALT (29%), and increased lymphocytes (24%).

Table 18 summarizes the adverse reactions in Study G2201.

**Table 18. Adverse Reactions ( $\geq 15\%$ ) in Pediatric LGG Patients Who Received TAFINLAR in Combination with Trametinib in Study G2201<sup>a</sup>**

	TAFINLAR plus	Carboplatin plus
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Adverse Reactions	Trametinib N = 73		Vincristine N = 33	
	All Grades (%)	Grade ≥ 3 (%)	All Grades (%)	Grade ≥ 3 (%)
<b>Gastrointestinal</b>				
Vomiting	34	1	48	3
Diarrhea <sup>b</sup>	29	0	18	6
Nausea	25	0	45	0
Abdominal pain <sup>c</sup>	25	0	24	0
Constipation	12	0	36	0
Stomatitis <sup>d</sup>	10	0	18	0
<b>General</b>				
Pyrexia <sup>e</sup>	68	8	18	3
Fatigue <sup>f</sup>	33	0	39	0
<b>Nervous system</b>				
Headache <sup>g</sup>	47	1	33	3
Dizziness <sup>h</sup>	15	0	9	3
Peripheral neuropathy <sup>i</sup>	7	0	45	6
<b>Vascular</b>				
Hemorrhage <sup>j</sup>	25	0	12	0
<b>Skin and subcutaneous tissue</b>				
Rash <sup>k</sup>	51	2.7	18	3
Dry skin	26	0	3	0
Dermatitis acneiform <sup>l</sup>	22	0	0	0
Alopecia	3	0	24	0
<b>Musculoskeletal and connective tissue</b>				
Musculoskeletal pain <sup>m</sup>	34	0	30	0
Pain in jaw	1.4	0	18	0
<b>Metabolism and nutrition</b>				
Decreased appetite	5	0	24	0
<b>Respiratory, thoracic and mediastinal</b>				
Oropharyngeal pain	11	0	18	0
<b>Psychiatric</b>				
Anxiety	1.4	0	15	3
<b>Immune system</b>				
Hypersensitivity	0	0	15	3
<b>Infections and infestations</b>				
Upper respiratory tract infection	15	0	6	0
<b>Injury, poisoning and procedural complications</b>				
Infusion-related reaction	0	0	15	3
<b>Investigations</b>				
Weight increased	15	7	0	0

<sup>a</sup> NCI CTCAE version 4.03.

<sup>b</sup> Includes diarrhea, colitis, enterocolitis, and enteritis.

<sup>c</sup> Includes abdominal pain and upper abdominal pain.

<sup>d</sup> Includes stomatitis, cheilitis, mouth ulceration, aphthous ulcer, and glossitis.

<sup>e</sup> Includes pyrexia and body temperature increased.

<sup>f</sup> Includes fatigue and asthenia.

<sup>g</sup> Includes headache and migraine with aura.

<sup>h</sup> Includes dizziness and vertigo.

<sup>i</sup> Includes peripheral neuropathy, peripheral motor neuropathy, peripheral sensorimotor neuropathy, paresthesia, neuralgia, hypoaesthesia, and peripheral sensory neuropathy.

<sup>j</sup> Includes epistaxis, post-procedural hemorrhage, hematuria, upper gastrointestinal hemorrhage, and hemorrhage intracranial.

<sup>k</sup> Includes rash, rash macular, rash maculo-papular, rash pustular, rash papular, rash erythematous, eczema, erythema multiforme, dermatitis, dermatitis exfoliative, skin exfoliation, palmar-plantar erythrodysesthesia syndrome, and dermatitis bullous.

<sup>l</sup> Includes dermatitis acneiform, acne, and acne pustular.

<sup>m</sup> Includes back pain, myalgia, pain in extremity, arthralgia, bone pain, non-cardiac chest pain, neck pain, and musculoskeletal stiffness.

Table 19 summarizes the laboratory abnormalities in Study G2201.

**Table 19. Select Laboratory Abnormalities ( $\geq 20\%$ ) That Worsened from Baseline in Pediatric LGG Patients Who Received TAFINLAR in Combination with Trametinib in Study G2201<sup>a</sup>**

Laboratory Abnormality	TAFINLAR plus Trametinib N = 73		Carboplatin plus Vincristine N = 33	
	All Grades (%)	Grade 3 or 4 (%)	All Grades (%)	Grade 3 or 4 (%)
<b>Hepatic</b>				
Increased alkaline phosphatase	55	0	13	0
Increased AST	37	1.4	55	0
Increased ALT	29	3	61	9
<b>Chemistry</b>				
Decreased magnesium	34	4.1	76	6
Increased magnesium	32	0	24	3
Increased potassium	15	4.2	21	6
Decreased calcium	14	4.1	22	9
Decreased potassium	8	1.4	70	0
Decreased phosphate	7	2.7	33	3
Decreased sodium	5	1.4	27	6
Increased serum fasting glucose	0	0	44	0
<b>Hematology</b>				
Decreased leukocytes	59	0	91	18
Decreased hemoglobin	46	0	94	36
Decreased neutrophils	44	17	84	75
Decreased platelets	30	0	73	18
Increased lymphocytes	24	0	13	3.1

Decreased lymphocytes	16	1.4	56	6
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Abbreviations: ALT, alanine aminotransferase; AST, aspartate aminotransferase.

<sup>a</sup> The denominator used to calculate the rate varied from 70 to 73 in D + T arm and 9 to 33 in C + V arm based on the number of patients with a baseline value and at least one post-treatment value.

## 6.2 Postmarketing Experience

The following adverse reactions have been identified during post approval use of TAFINLAR in combination with trametinib. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

*Cardiac:* Atrioventricular block complete

*Immune System:* Hemophagocytic lymphohistiocytosis (HLH) [see Warnings and Precautions (5.11)]

*Skin and Subcutaneous Tissue:* SCAR (including DRESS and SJS) [see Warnings and Precautions (5.7)]

## 7 DRUG INTERACTIONS

### 7.1 Effects of Other Drugs on TAFINLAR

Strong inhibitors of CYP3A4 or CYP2C8 may increase the concentration of dabrafenib [see *Clinical Pharmacology* (12.3)]. Substitution of strong inhibitors of CYP3A4 or CYP2C8 is recommended during treatment with TAFINLAR. If concomitant use of strong inhibitors of CYP3A4 or CYP2C8 is unavoidable, monitor patients closely for adverse reactions when taking strong inhibitors.

### 7.2 Effects of TAFINLAR on Other Drugs

Dabrafenib decreased the systemic exposures of midazolam (a CYP3A4 substrate), S-warfarin (a CYP2C9 substrate), and R-warfarin (a CYP3A4/CYP1A2 substrate) [see *Clinical Pharmacology* (12.3)]. Monitor international normalized ratio (INR) levels more frequently in patients receiving warfarin during initiation or discontinuation of dabrafenib. Coadministration of TAFINLAR with other substrates of these enzymes, including dexamethasone or hormonal contraceptives, can result in decreased concentrations and loss of efficacy [see *Use in Specific Populations* (8.1, 8.3)]. Substitute for these medications or monitor patients for loss of efficacy if use of these medications is unavoidable.

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### Risk Summary

Based on findings from animal reproduction studies and its mechanism of action [see *Clinical Pharmacology* (12.1)], TAFINLAR can cause fetal harm when administered to a

pregnant woman. There is insufficient data in pregnant women exposed to TAFINLAR to assess the risks. Dabrafenib was teratogenic and embryotoxic in rats at doses three times greater than the human exposure at the recommended adult clinical dose of 150 mg twice daily (*see Data*). Advise pregnant women of the potential risk to a fetus.

In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

## Data

### *Animal Data*

In a combined female fertility and embryo-fetal development study in rats conducted during the period of organogenesis, developmental toxicity consisted of embryo-lethality, ventricular septal defects, and variation in thymic shape at a dabrafenib dose of 300 mg/kg/day [approximately three times the human exposure at the recommended adult dose based on area under the curve (AUC)]. At doses of 20 mg/kg/day or greater (equivalent to the human exposure at the recommended adult dose based on AUC), rats demonstrated delays in skeletal development and reduced fetal body weight.

## **8.2 Lactation**

### Risk Summary

There are no data on the presence of dabrafenib in human milk, or the effects of dabrafenib on the breastfed child or on milk production. Because of the potential for serious adverse reactions in breastfed children, advise women not to breastfeed during treatment with TAFINLAR and for 2 weeks following the last dose.

## **8.3 Females and Males of Reproductive Potential**

### Pregnancy Testing

Verify pregnancy status in females of reproductive potential prior to initiating TAFINLAR.

### Contraception

Based on data from animal studies and its mechanism of action, TAFINLAR can cause fetal harm when administered to pregnant women [*see Use in Specific Populations (8.1)*].

#### *Females*

Advise female patients of reproductive potential to use effective contraception during treatment with TAFINLAR and for 2 weeks after the last dose. Counsel patients to use a non-hormonal method of contraception since TAFINLAR can render hormonal contraceptives ineffective [*see Drug Interactions (7.2)*].

#### *Males*

To avoid potential drug exposure to pregnant partners and female partners of reproductive potential, advise male patients (including those who have had vasectomies) with female partners of reproductive potential to use condoms during treatment with TAFINLAR and for 2 weeks after the last dose.

### Infertility

#### *Females*

Advise female patients of reproductive potential that TAFINLAR may impair fertility. A reduction in fertility was observed in female rats at dose exposures equivalent to the human exposure at the recommended adult dose. A reduction in the number of corpora lutea was noted in pregnant rats at dose exposures approximately three times the human exposure at the recommended adult dose [see *Nonclinical Toxicology (13.1)*].

#### *Males*

Advise male patients of the potential risk for impaired spermatogenesis which may be irreversible. Effects on spermatogenesis have been observed in animals treated with dabrafenib at dose exposures up to three times the human exposure at the recommended adult dose [see *Nonclinical Toxicology (13.1)*].

## **8.4 Pediatric Use**

### BRAF V600E Mutation-Positive Unresectable or Metastatic Solid Tumors and LGG

The safety and effectiveness of TAFINLAR in combination with trametinib have been established in pediatric patients 1 year of age and older with unresectable or metastatic solid tumors with BRAF V600E mutation who have progressed following prior treatment and have no satisfactory alternative treatment options; or with LGG with BRAF V600E mutation who require systemic therapy. Use of TAFINLAR in combination with trametinib for these indications is supported by evidence from studies X2101 and G2201 that enrolled 171 patients (1 to < 18 years of age) with BRAF V600 mutation-positive advanced solid tumors, of which 4 (2.3%) patients were 1 to < 2 years of age, 39 (23%) patients were 2 to < 6 years of age, 54 (32%) patients were 6 to < 12 years of age, and 74 (43%) patients were 12 to < 18 years of age [see *Adverse Reactions (6.1)*, *Clinical Pharmacology (12.3)*, *Clinical Studies (14.6, 14.7)*].

The safety and effectiveness of TAFINLAR in combination with trametinib have not been established for these indications in pediatric patients less than 1 year old.

The safety and effectiveness of TAFINLAR as a single agent in pediatric patients have not been established.

### Juvenile Animal Toxicity Data

In a repeat-dose toxicity study in juvenile rats, an increased incidence of kidney cysts and tubular deposits were noted at doses as low as 0.2 times the human exposure at the recommended adult dose based on AUC. Additionally, forestomach hyperplasia, decreased bone length, and early vaginal opening were noted at doses as low as 0.8 times the human exposure at the recommended adult dose based on AUC.

## **8.5 Geriatric Use**

Of the 586 patients with various solid tumors who received single agent TAFINLAR, 22% were aged 65 years and older. Of the 187 patients with melanoma who received single-agent TAFINLAR in the BREAK-3 study, 21% were aged 65 years and older [see *Clinical Studies (14.1)*]. No overall differences in the effectiveness or safety of TAFINLAR were observed between geriatric patients as compared to younger adults in the BREAK-3 study.

Of the 994 patients with melanoma who received TAFINLAR plus trametinib in the COMBI-d, COMBI-v, and COMBI-AD studies [see *Clinical Studies (14.2, 14.3)*], 21% were

aged 65 years and older and 5% were aged 75 years and older. No overall differences in the effectiveness of TAFINLAR plus trametinib were observed in geriatric patients as compared to younger adults across these melanoma studies. The incidences of peripheral edema (26% vs. 12%) and anorexia (21% vs. 9%) were increased in geriatric patients as compared to younger adults in these studies.

Of the 171 patients with NSCLC who received TAFINLAR in Study BRF113928, there were insufficient numbers of geriatric patients to determine whether they respond differently from younger adults [see *Clinical Studies (14.4)*].

Of the 26 patients with ATC who received TAFINLAR in Study BRF117019, 77% were aged 65 years and older, and 31% were aged 75 years and older [see *Clinical Studies (14.5)*]. This study in ATC did not include sufficient numbers of younger adults to determine whether they respond differently compared to geriatric patients.

## 8.6 Hepatic Impairment

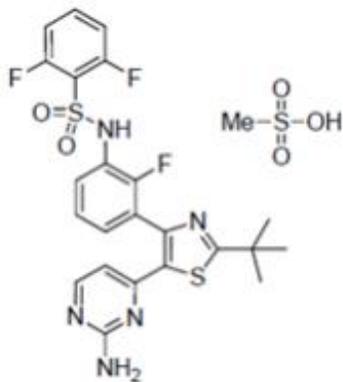
Dose adjustment is not recommended for patients with mild (bilirubin  $\leq$  upper limit of normal (ULN) and aspartate aminotransferase (AST)  $>$  ULN or bilirubin  $>$  1x to 1.5x ULN and any AST) hepatic impairment. As hepatic metabolism and biliary secretion are the primary routes of elimination of dabrafenib and its metabolites, patients with moderate (bilirubin  $>$  1.5x to 3x ULN and any AST) to severe (bilirubin  $>$  3x to 10x ULN and any AST) hepatic impairment may have increased exposure. An appropriate dosage has not been established for patients with moderate to severe hepatic impairment [see *Clinical Pharmacology (12.3)*].

## 10 OVERDOSAGE

There is no information on overdosage of TAFINLAR. Since dabrafenib is highly bound to plasma proteins, hemodialysis is likely to be ineffective in the treatment of overdose with TAFINLAR.

## 11 DESCRIPTION

Dabrafenib mesylate is a kinase inhibitor. The chemical name for dabrafenib mesylate is N-{3-[5-(2-amino-4-pyrimidinyl)-2-(1,1-dimethylethyl)-1,3-thiazol-4-yl]-2-fluorophenyl}-2,6-difluorobenzene sulfonamide, methanesulfonate salt. It has the molecular formula  $C_{23}H_{20}F_3N_5O_2S_2 \cdot CH_4O_3S$  and a molecular weight of 615.68 g/mol. Dabrafenib mesylate has the following chemical structure:



Dabrafenib mesylate is a white to slightly colored solid with three pK<sub>a</sub>s: 6.6, 2.2, and -1.5. It is very slightly soluble at pH 1 and practically insoluble above pH 4 in aqueous media.

TAFINLAR (dabrafenib) capsules for oral use are supplied as 50 mg and 75 mg capsules for oral administration. Each 50 mg capsule contains 59.25 mg dabrafenib mesylate equivalent to 50 mg of dabrafenib free base. Each 75 mg capsule contains 88.88 mg dabrafenib mesylate equivalent to 75 mg of dabrafenib free base. The inactive ingredients of TAFINLAR capsules are colloidal silicon dioxide, magnesium stearate, and microcrystalline cellulose. Capsule shells contain hypromellose, red iron oxide (E172), and titanium dioxide (E171).

TAFINLAR (dabrafenib) tablets for oral suspension are supplied as 10 mg tablets for oral administration. Each 10 mg tablet contains 11.85 mg dabrafenib mesylate equivalent to 10 mg of dabrafenib base. The inactive ingredients of TAFINLAR tablets are acesulfame potassium, artificial berry flavor, colloidal silicon dioxide, crospovidone, hypromellose, magnesium stearate, mannitol, microcrystalline cellulose.

## **12 CLINICAL PHARMACOLOGY**

### **12.1 Mechanism of Action**

Dabrafenib is an inhibitor of some mutated forms of BRAF kinases with in vitro IC<sub>50</sub> values of 0.65, 0.5, and 1.84 nM for BRAF V600E, BRAF V600K, and BRAF V600D enzymes, respectively. Dabrafenib also inhibits wild-type BRAF and CRAF kinases with IC<sub>50</sub> values of 3.2 and 5.0 nM, respectively, and other kinases, such as SIK1, NEK11, and LIMK1 at higher concentrations. Some mutations in the BRAF gene, including those that result in BRAF V600E, can result in constitutively activated BRAF kinases that may stimulate tumor cell growth [see *Indications and Usage (1)*]. Dabrafenib inhibits cell growth of various BRAF V600 mutation-positive tumors in vitro and in vivo.

Dabrafenib and trametinib target two different kinases in the RAS/RAF/MEK/ERK pathway. Use of dabrafenib and trametinib in combination resulted in greater growth inhibition of BRAF V600 mutation-positive tumor cell lines in vitro and prolonged inhibition of tumor growth in BRAF V600 mutation-positive tumor xenografts compared with either drug alone.

In the setting of BRAF-mutant colorectal cancer, induction of EGFR-mediated MAPK pathway re-activation has been identified as a mechanism of intrinsic resistance to BRAF inhibitors [see *Indications and Usage (1.8)*].

### **12.2 Pharmacodynamics**

#### Cardiac Electrophysiology

The potential effect of TAFINLAR on QT interval was assessed in a dedicated multiple-dose study in 32 patients with BRAF V600 mutation-positive tumors. No large changes in the mean QT interval (i.e., > 20 ms) were detected with dabrafenib 300 mg administered twice daily (two times the recommended dosage).

In clinical trials, QTc (heart rate-corrected QT) prolongation to ≥ 500 ms occurred in 0.8% of 264 patients who received TAFINLAR with trametinib and in 1.5% of patients who received TAFINLAR as a single agent. The QTc was increased > 60 ms from

baseline in 3.8% of patients who received TAFINLAR with trametinib and 3% of patients treated with TAFINLAR as a single agent.

### **12.3 Pharmacokinetics**

Following administration of TAFINLAR capsules, dabrafenib  $C_{max}$  and AUC increased in a dose-proportional manner across the dose range of 12 mg (0.08 times the approved recommended adult dose) to 300 mg (2 times the approved recommended adult dose), but the increase was less than dose-proportional after steady state twice-daily dosing. After twice-daily dosing, the mean accumulation ratio was 0.7, and the intersubject variability (CV%) of AUC at steady-state was 38%.

#### Absorption

The median time to achieve peak plasma concentration ( $T_{max}$ ) is 2 hours. Mean absolute bioavailability of TAFINLAR capsules is 95% and TAFINLAR tablets for oral suspension is 76%.

#### *Effect of Food*

Following administration of TAFINLAR capsules, a high-fat meal (approximately 1000 calories, 58-75 grams fat, 58 grams carbohydrates, and 33 grams protein) decreased  $C_{max}$  by 51%, decreased AUC by 31%, and delayed median  $T_{max}$  by 3.6 hours as compared with the fasted state.

Administration of a single 150 mg dose of TAFINLAR tablets for the oral suspension with a low-fat, low-calorie meal (approximately 500 calories, 14 grams fat, 80 grams carbohydrates, and 12 grams protein) decreased dabrafenib  $C_{max}$  by 35% and AUC by 29% as compared with the fasted state.

#### Distribution

Dabrafenib is 99.7% bound to human plasma proteins. The apparent volume of distribution ( $V_d/F$ ) is 70.3 L.

#### Elimination

The mean terminal half-life is 8 hours. Hydroxy-dabrafenib terminal half-life (10 hours) parallels that of dabrafenib while the carboxy- and desmethyl-dabrafenib metabolites exhibit longer half-lives (21 to 22 hours). The apparent clearance of dabrafenib is 17 L/h after a single dose and 34 L/h after twice-daily dosing for 2 weeks.

#### *Metabolism*

The metabolism of dabrafenib is primarily mediated by CYP2C8 and CYP3A4 to form hydroxy-dabrafenib. Hydroxy-dabrafenib is further oxidized via CYP3A4 to form carboxy-dabrafenib and subsequently excreted in bile and urine. Carboxy-dabrafenib is decarboxylated to form desmethyl-dabrafenib; desmethyl-dabrafenib may be reabsorbed from the gut. Desmethyl-dabrafenib is further metabolized by CYP3A4 to oxidative metabolites. Mean metabolite-to-parent AUC ratios following repeat-dose administration are 0.9, 11, and 0.7 for hydroxy-, carboxy-, and desmethyl-dabrafenib, respectively. Based on systemic exposure, relative potency, and pharmacokinetic properties, both hydroxy- and desmethyl-dabrafenib are likely to contribute to the clinical activity of dabrafenib.

#### *Excretion*

Fecal excretion is the major route of elimination accounting for 71% of radioactive dose while urinary excretion accounted for 23% of total radioactivity as metabolites only.

### Specific Populations

Age (18 to 93 years), sex, weight (36 to 170 kg), and renal impairment (eGFR 15 to 89 mL/min/1.73 m<sup>2</sup>) have no clinically relevant effect on the pharmacokinetics of dabrafenib.

#### *Pediatric Patients*

The pharmacokinetics of dabrafenib in glioma and other solid tumors were evaluated in 243 patients aged 1 to < 18 years following a single dose or multiple doses. Pharmacokinetic parameters in patients aged 1 to < 18 years are within range of values previously observed in adults given the same dose based on weight. Weight (6 to 156 kg) had a statistically significant effect on dabrafenib oral clearance in this population.

#### *Patients with Hepatic Impairment*

Mild hepatic impairment (bilirubin  $\leq$  ULN and AST  $>$  ULN or bilirubin  $>$  1x to 1.5x ULN and any AST) has no effect on systemic exposure to dabrafenib and its metabolites. No data are available in patients with moderate (bilirubin  $>$  1.5x to 3x ULN and any AST) or severe (bilirubin  $>$  3x to 10x ULN and any AST) hepatic impairment.

### Drug Interaction Studies

*Effect of Trametinib on Dabrafenib:* Coadministration of TAFINLAR 75 mg twice daily with trametinib 2 mg daily resulted in a 23% increase in AUC of dabrafenib, a 33% increase in AUC of desmethyl-dabrafenib, and no change in AUC of hydroxy-dabrafenib as compared with administration of dabrafenib.

*Effect of Strong Inhibitors of CYP3A4 or CYP2C8 on Dabrafenib:* Coadministration of TAFINLAR 75 mg twice daily and ketoconazole (a strong CYP3A4 inhibitor) for 4 days increased dabrafenib AUC by 71%, hydroxy-dabrafenib AUC by 82%, and desmethyl-dabrafenib AUC by 68%.

Coadministration of TAFINLAR 75 mg twice daily and gemfibrozil (a strong CYP2C8 inhibitor) for 4 days increased dabrafenib AUC by 47%, with no change in the AUC of dabrafenib metabolites.

*Effect of Strong Inducers of CYP3A4 or Moderate Inducers of CYP2C8 on Dabrafenib:* Coadministration of TAFINLAR 150 mg twice daily and rifampin (a strong CYP3A4 and moderate CYP2C8 inducer) for 10 days decreased dabrafenib AUC by 34% and desmethyl-dabrafenib AUC by 30%, and had no effect on hydroxy-dabrafenib AUC.

*Effect of Acid Reducing Agents on Dabrafenib:* Coadministration of TAFINLAR 150 mg twice daily and rabeprazole for 4 days did not result in clinically relevant changes in exposures to dabrafenib and its metabolites.

*Effect of Dabrafenib on CYP Substrates:* Coadministration of TAFINLAR 150 mg twice daily for 15 days and a single dose of midazolam (a CYP3A4 substrate) decreased midazolam AUC by 65%. Coadministration of TAFINLAR 150 mg twice daily for 15 days and a single dose of warfarin decreased the AUC of S-warfarin (a CYP2C9 substrate) by 37% and the AUC of R-warfarin (CYP3A4/CYP1A2 substrate) by 33%.

In vitro data demonstrate that dabrafenib is an inducer of CYP3A4 and CYP2B6 via activation of the pregnane X receptor (PXR) and constitutive androstane receptor (CAR)

nuclear receptors. Dabrafenib may also induce CYP2C enzymes via the same mechanism.

*Effect of Transporters on Dabrafenib:* Dabrafenib and its metabolites, hydroxyl-dabrafenib and desmethyl-dabrafenib, are substrates of human P-glycoprotein (P-gp) and breast cancer resistance protein (BCRP) but are not substrates of organic cation transporter (OCT1) or organic anion transporting polypeptide (OATP1A2, OATP1B1, OATP1B3, OATP2B1) in vitro.

*Effect of Dabrafenib on Transporters:* Coadministration of TAFINLAR 150 mg twice daily with a single dose of rosuvastatin (a sensitive OATP1B1 and OATP1B3 substrate) increased rosuvastatin  $C_{max}$  by 2.6-fold but did not change its AUC.

Dabrafenib and its metabolites, hydroxy-dabrafenib, carboxy-dabrafenib, and desmethyl-dabrafenib, are inhibitors of organic anion transporter (OAT1 and OAT3) in vitro. Dabrafenib and desmethyl-dabrafenib are inhibitors of OCT2 and BCRP in vitro.

## **13 NONCLINICAL TOXICOLOGY**

### **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

Carcinogenicity studies with dabrafenib have not been conducted. TAFINLAR increased the risk of cuSCCs in patients in clinical trials.

Dabrafenib was not mutagenic in vitro in the bacterial reverse mutation assay (Ames test) or the mouse lymphoma assay and was not clastogenic in an in vivo rat bone marrow micronucleus test.

In a combined female fertility and embryo-fetal development study in rats, a reduction in fertility was noted at doses greater than or equal to 20 mg/kg/day (equivalent to the human exposure at the recommended adult dose based on AUC). A reduction in the number of ovarian corpora lutea was noted in pregnant females at 300 mg/kg/day (which is approximately three times the human exposure at the recommended adult dose based on AUC).

Male fertility studies with dabrafenib have not been conducted; however, in repeat-dose studies, testicular degeneration/depletion was seen in rats and dogs at doses equivalent to and three times the human exposure at the recommended adult dose based on AUC, respectively.

### **13.2 Animal Toxicology and/or Pharmacology**

Adverse cardiovascular effects were noted in dogs at dabrafenib doses of 50 mg/kg/day (approximately five times the human exposure at the recommended adult dose based on AUC) or greater, when administered for up to 4 weeks. Adverse effects consisted of coronary arterial degeneration/necrosis and hemorrhage, as well as cardiac atrioventricular valve hypertrophy/hemorrhage.

## **14 CLINICAL STUDIES**

### **14.1 BRAF V600E Mutation-Positive Unresectable or Metastatic Melanoma - TAFINLAR as a Single Agent**

## BREAK-3 Study

The safety and efficacy of TAFINLAR as a single agent were evaluated in an international, multi-center, randomized (3:1), open-label, active-controlled trial (the BREAK-3 study; NCT01227889) conducted in 250 patients with previously untreated BRAF V600E mutation-positive, unresectable or metastatic melanoma. Patients with any prior use of BRAF inhibitors or MEK inhibitors were excluded. Patients were randomized to receive TAFINLAR 150 mg orally twice daily (n = 187) or dacarbazine 1000 mg/m<sup>2</sup> intravenously every 3 weeks (n = 63). Randomization was stratified by disease stage at baseline [unresectable Stage III (regional nodal or in-transit metastases), M1a (distant skin, subcutaneous, or nodal metastases), or M1b (lung metastases) versus M1c melanoma (all other visceral metastases or elevated serum LDH)]. The main efficacy outcome measure was progression-free survival (PFS) as assessed by the investigator. In addition, an independent radiology review committee (IRRC) assessed the following efficacy outcome measures in pre-specified supportive analyses: PFS, confirmed overall response rate (ORR), and duration of response (DoR).

The median age of patients in the BREAK-3 study was 52 years. The majority of the trial population was male (60%), White (99%), had an ECOG performance status of 0 (67%), had M1c disease (66%), and had normal LDH (62%). All patients had tumor tissue with mutations in BRAF V600E as determined by a clinical trial assay at a centralized testing site. Tumor samples from 243 patients (97%) were tested retrospectively using an FDA-approved companion diagnostic test, tHxID™ -BRAF assay.

The median durations of follow-up prior to initiation of alternative treatment in patients randomized to receive TAFINLAR was 5.1 months and in the dacarbazine arm was 3.5 months. Twenty-eight (44%) patients crossed over from the dacarbazine arm at the time of disease progression to receive TAFINLAR.

The BREAK-3 study demonstrated a statistically significant increase in PFS in the patients treated with TAFINLAR. Table 20 and Figure 1 summarize the PFS results.

**Table 20. Investigator-Assessed Progression-Free Survival and Confirmed Overall Response Results in the BREAK-3 Study**

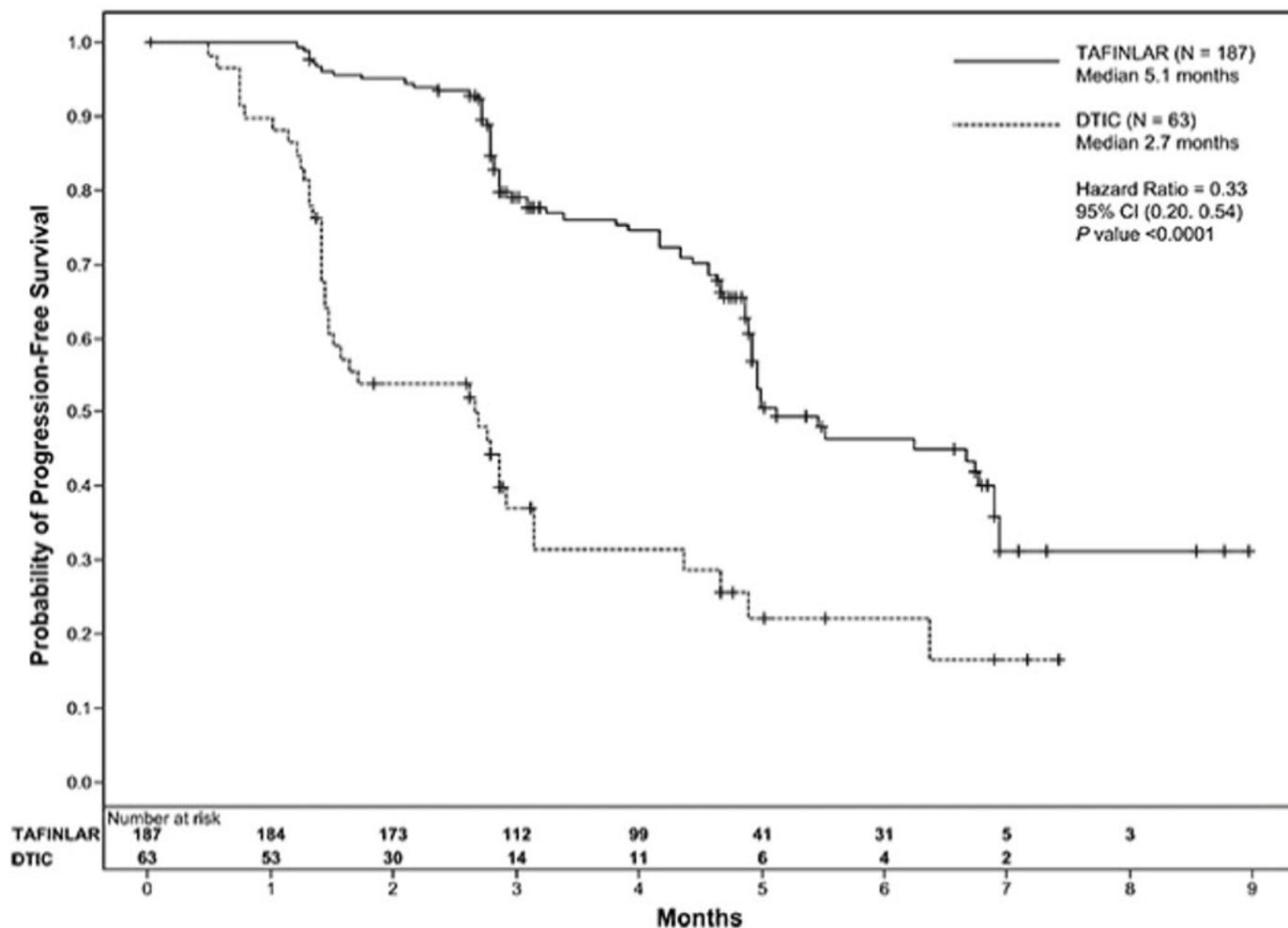
<b>Investigator-Assessed Endpoints</b>	<b>TAFINLAR N = 187</b>	<b>Dacarbazine N = 63</b>
<b>Progression-Free Survival</b>		
Number of events (%)	78 (42%)	41 (65%)
Progressive disease	76	41
Death	2	0
Median, months (95% CI)	5.1 (4.9, 6.9)	2.7 (1.5, 3.2)
HR <sup>a</sup> (95% CI)	0.33 (0.20, 0.54)	
P value <sup>b</sup>	< 0.0001	
<b>Confirmed Tumor Responses</b>		
Overall response rate (95% CI)	52% (44%, 59%)	17% (9%, 29%)
Complete response, n (%)	6 (3%)	0
Partial response, n (%)	91 (48%)	11 (17%)
Duration of response		
Median DoR, months (95%		

CI)	5.6 (5.4, NR)	NR (5.0, NR)
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Abbreviations: CI, confidence interval; DoR, duration of response; HR, hazard ratio; NR, not reached.

<sup>a</sup> Pike estimator, stratified by disease state.

<sup>b</sup> Stratified log-rank test.



**Figure 1. Kaplan-Meier Curves of Investigator-Assessed Progression-Free Survival in the BREAK-3 Study**

In supportive analyses based on IRRc assessment and in an exploratory subgroup analysis of patients with retrospectively confirmed V600E mutation-positive melanoma with the tHxID™-BRAF assay, the PFS results were consistent with those of the primary efficacy analysis.

#### BREAK-MB Study

The activity of TAFINLAR for the treatment of BRAF V600E mutation-positive melanoma, metastatic to the brain was evaluated in a single-arm, open-label, two-cohort multi-center trial (the BREAK-MB study; NCT01266967). All patients received TAFINLAR 150 mg twice daily. Patients in Cohort A (n = 74) had received no prior local therapy for brain metastases, while patients in Cohort B (n = 65) had received at least one local therapy for brain metastases, including, but not limited to, surgical resection, whole brain radiotherapy, or stereotactic radiosurgery, such as gamma knife, linear-accelerated-based radiosurgery, or charged particles. In addition, patients in Cohort B were required

to have evidence of disease progression in a previously treated lesion or an untreated lesion. Additional eligibility criteria were at least one measurable lesion of 0.5 cm or greater in largest diameter on contrast-enhanced MRI, stable or decreasing corticosteroid dose, and no more than two prior systemic regimens for treatment of metastatic disease. The major efficacy outcome measure was estimation of the overall intracranial response rate (OIRR) in each cohort.

The median age of patients in Cohort A was 50 years, 72% were male, 100% were White, 59% had a pre-treatment ECOG performance status of 0, and 57% had elevated LDH at baseline. The median age of patients in Cohort B was 51 years, 63% were male, 98% were White, 66% had a pre-treatment ECOG performance status of 0, and 54% had elevated LDH at baseline. The intracranial response rate as determined by an independent radiology review committee, masked to investigator response assessments, was 18% (95% CI: 10%, 28%) in Cohort A and 18% (95% CI: 10%, 30%) in Cohort B. The median duration of intracranial response was 4.6 months in both cohorts.

## **14.2 BRAF V600E or V600K Unresectable or Metastatic Melanoma - TAFINLAR With Trametinib**

### COMBI-d Study and COMBI-v Study

The safety and efficacy of TAFINLAR administered with trametinib were evaluated in two international, randomized, active-controlled trials: one double-blind trial (the COMBI-d study; NCT01584648) and one open-label trial (the COMBI-v study; NCT01597908).

The COMBI-d study compared TAFINLAR plus trametinib to TAFINLAR plus placebo as first-line therapy for patients with unresectable (Stage IIIC) or metastatic (Stage IV) BRAF V600E or V600K mutation-positive cutaneous melanoma. Patients were randomized (1:1) to receive TAFINLAR 150 mg twice daily plus trametinib 2 mg once daily or TAFINLAR 150 mg twice daily plus matching placebo. Randomization was stratified by LDH level ( $> \text{ULN}$  vs.  $\leq \text{ULN}$ ) and BRAF mutation subtype (V600E vs. V600K). The major efficacy outcome measure was investigator-assessed progression-free survival (PFS) per RECIST v1.1 with additional efficacy outcome measures of overall survival (OS) and confirmed overall response rate (ORR).

The COMBI-v study compared TAFINLAR and trametinib to vemurafenib as first-line treatment therapy for patients with unresectable (Stage IIIC) or metastatic (Stage IV) BRAF V600E or V600K mutation-positive cutaneous melanoma. Patients were randomized (1:1) to receive TAFINLAR 150 mg twice daily and trametinib 2 mg once daily or vemurafenib 960 mg twice daily. Randomization was stratified by lactate dehydrogenase (LDH) level ( $> \text{ULN}$  vs.  $\leq \text{ULN}$ ) and BRAF mutation subtype (V600E vs. V600K). The major efficacy outcome measure was OS. Additional efficacy outcome measures were PFS and ORR as assessed by investigator per RECIST v1.1.

In the COMBI-d study, 423 patients were randomized to TAFINLAR plus trametinib (n = 211) or TAFINLAR plus placebo (n = 212). The median age was 56 years (range: 22 to 89), 53% were male,  $> 99\%$  were White, 72% had ECOG performance status of 0, 4% had Stage IIIC, 66% had M1c disease, 65% had normal LDH, and 2 patients had a history of brain metastases. All patients had tumor containing BRAF V600E or V600K mutations as determined by centralized testing with the FDA-approved companion diagnostic test; 85% with BRAF V600E mutation positive melanoma and 15% with BRAF V600K mutation positive melanoma.

In the COMBI-v study, 704 patients were randomized to TAFINLAR plus trametinib (n = 352) or single-agent vemurafenib (n = 352). The median age was 55 years (range: 18 to 91), 96% were White, 55% were male, 6% had Stage IIIC, 61% had M1c disease, 67% had normal LDH, 70% had ECOG performance status of 0, 89% had BRAF V600E mutation-positive melanoma, and one patient had a history of brain metastases.

The COMBI-d and COMBI-v studies demonstrated statistically significant improvements in OS and PFS. Table 21 and Figures 2 and 3 summarize the efficacy results.

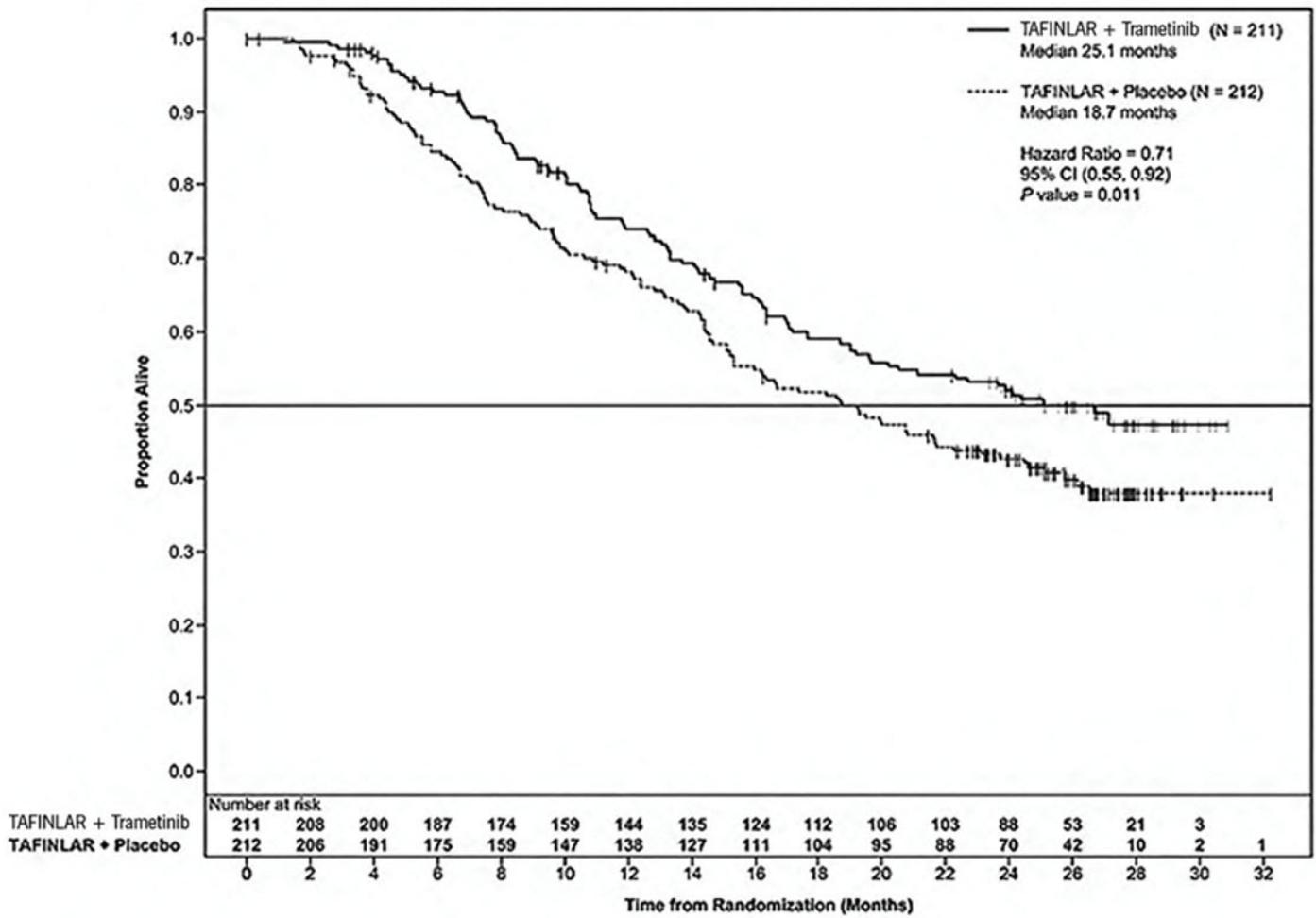
**Table 21. Efficacy Results in Patients with BRAF V600E or V600K Mutation-Positive Unresectable or Metastatic Melanoma<sup>a</sup>**

Endpoint	COMBI-d Study		COMBI-v Study	
	TAFINLAR plus Trametinib N = 211	TAFINLAR plus Placebo N = 212	TAFINLAR plus Trametinib N = 352	Vemurafenib N = 352
<b>Overall Survival</b>				
Number of deaths (%)	99 (47%)	123 (58%)	100 (28%)	122 (35%)
Median, months (95% CI)	25.1 (19.2, NR)	18.7 (15.2, 23.1)	NR (18.3, NR)	17.2 (16.4, NR)
HR (95% CI)	0.71 (0.55, 0.92)		0.69 (0.53, 0.89)	
P value (log-rank test)	0.01		0.005 <sup>a</sup>	
<b>Progression-Free Survival<sup>b</sup></b>				
Number of events (%)	102 (48%)	109 (51%)	166 (47%)	217 (62%)
Median, months (95% CI)	9.3 (7.7, 11.1)	8.8 (5.9, 10.9)	11.4 (9.9, 14.9)	7.3 (5.8, 7.8)
HR (95% CI)	0.75 (0.57, 0.99)		0.56 (0.46, 0.69)	
P value (log-rank test)	0.035		< 0.001	
<b>Overall Response Rate<sup>b</sup></b>				
ORR (95% CI)	66% (60%, 73%)	51% (44%, 58%)	64% (59%, 69%)	51% (46%, 56%)
P value	< 0.001		< 0.001	
Complete response	10%	8%	13%	8%
Partial response	56%	42%	51%	43%
Median DoR, months (95% CI)	9.2 (7.4, NR)	10.2 (7.5, NR)	13.8 (11.0, NR)	7.5 (7.3, 9.3)

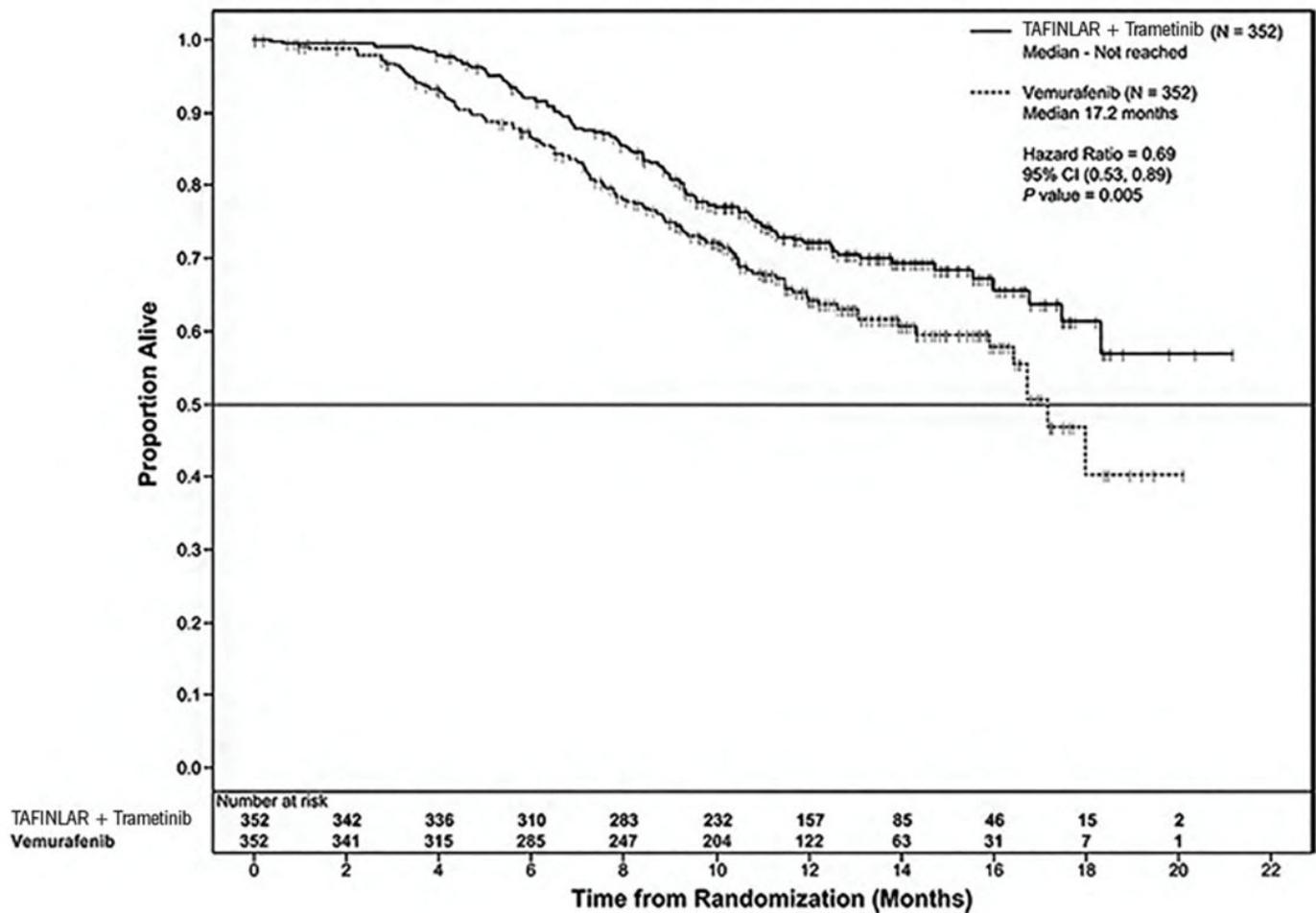
Abbreviations: CI, confidence interval; DoR, duration of response; HR, hazard ratio; NR, not reached; ORR, overall response rate.

<sup>a</sup>P-value is comparing with the allocated alpha of 0.021 for the interim analysis based on 77% information.

<sup>b</sup> PFS and ORR were assessed by investigator.



**Figure 2. Kaplan-Meier Curves for Overall Survival in the COMBI-d Study**



**Figure 3. Kaplan-Meier Curves for Overall Survival in the COMBI-v Study**

### COMBI-MB Study

The activity of TAFINLAR with trametinib for the treatment of BRAF V600E or V600K mutation-positive melanoma, metastatic to the brain, was evaluated in a non-randomized, open-label, multi-center, multi-cohort trial (the COMBI-MB study; NCT02039947). Eligible patients were required to have at least one measurable intracranial lesion and to have no leptomeningeal disease, parenchymal brain metastasis greater than 4 cm in diameter, ocular melanoma, or primary mucosal melanoma. Patients received TAFINLAR 150 mg orally twice daily and trametinib 2 mg orally once daily until disease progression or unacceptable toxicity. The major efficacy outcome measure was intracranial response rate, defined as the percentage of patients with a confirmed intracranial response per RECIST v1.1, modified to allow up to five intracranial target lesions at least 5 mm in diameter, as assessed by independent review.

The COMBI-MB study enrolled 121 patients with a BRAF V600E (85%) or V600K (15%) mutation. The median age was 54 years (range: 23 to 84), 58% were male, 100% were White, 8% were from the United States, 65% had normal LDH at baseline, and 97% had an ECOG performance status of 0 or 1. Intracranial metastases were asymptomatic in 87% and symptomatic in 13% of patients, 22% received prior local therapy for brain metastases, and 87% also had extracranial metastases.

The intracranial response rate was 50% (95% CI: 41, 60), with a complete response rate of 4.1% and a partial response rate of 46%. The median duration of intracranial

response was 6.4 months (range: 1 to 31). Of the patients with an intracranial response, 9% had stable or progressive disease as their best overall response.

### 14.3 Adjuvant Treatment of BRAF V600E or V600K Mutation-Positive Melanoma

The efficacy of TAFINLAR administered with trametinib was evaluated in an international, multi-center, randomized, double-blind, placebo-controlled trial (COMBI AD; NCT01682083) that enrolled patients with Stage III melanoma with BRAF V600E or V600K mutations as detected by the tHxID™-BRAF assay and pathologic involvement of regional lymph node(s). Enrollment required complete resection of melanoma with complete lymphadenectomy within 12 weeks prior to randomization. The trial excluded patients with mucosal or ocular melanoma, unresectable in-transit metastases, distant metastatic disease, or prior systemic anti-cancer treatment, including radiotherapy. Patients were randomized (1:1) to receive TAFINLAR 150 mg twice daily and trametinib 2 mg once daily or two placebos for up to 1 year. Randomization was stratified by BRAF mutation status (V600E or V600K) and American Joint Committee on Cancer (AJCC; 7<sup>th</sup> Edition) Stage (IIIA, IIIB, or IIIC). The major efficacy outcome measure was relapse-free survival (RFS), defined as the time from randomization to disease recurrence (local, regional, or distant metastasis), new primary melanoma, or death from any cause, whichever occurred first as assessed by the investigator. Patients underwent imaging for tumor recurrence every 3 months for the first two years and every 6 months thereafter.

In COMBI-AD, a total of 870 patients were randomized: 438 to TAFINLAR in combination with trametinib and 432 to placebo. Median age was 51 years (range: 18 to 89), 55% were male, 99% were White, and 91% had an ECOG performance status of 0. Disease characteristics were AJCC Stage IIIA (18%), Stage IIIB (41%), Stage IIIC (40%), stage unknown (1%); BRAF V600E mutation (91%), BRAF V600K mutation (9%); macroscopic lymph nodes (65%); and tumor ulceration (41%).

The median duration of follow-up at the time of the primary analysis was 2.8 years.

COMBI-AD showed a statistically significant improvement in RFS in patients randomized to TAFINLAR in combination with trametinib compared to those randomized to placebo. Efficacy results are presented in Table 22 and Figure 4.

**Table 22. Efficacy Results in COMBI-AD in the Adjuvant Treatment of Melanoma**

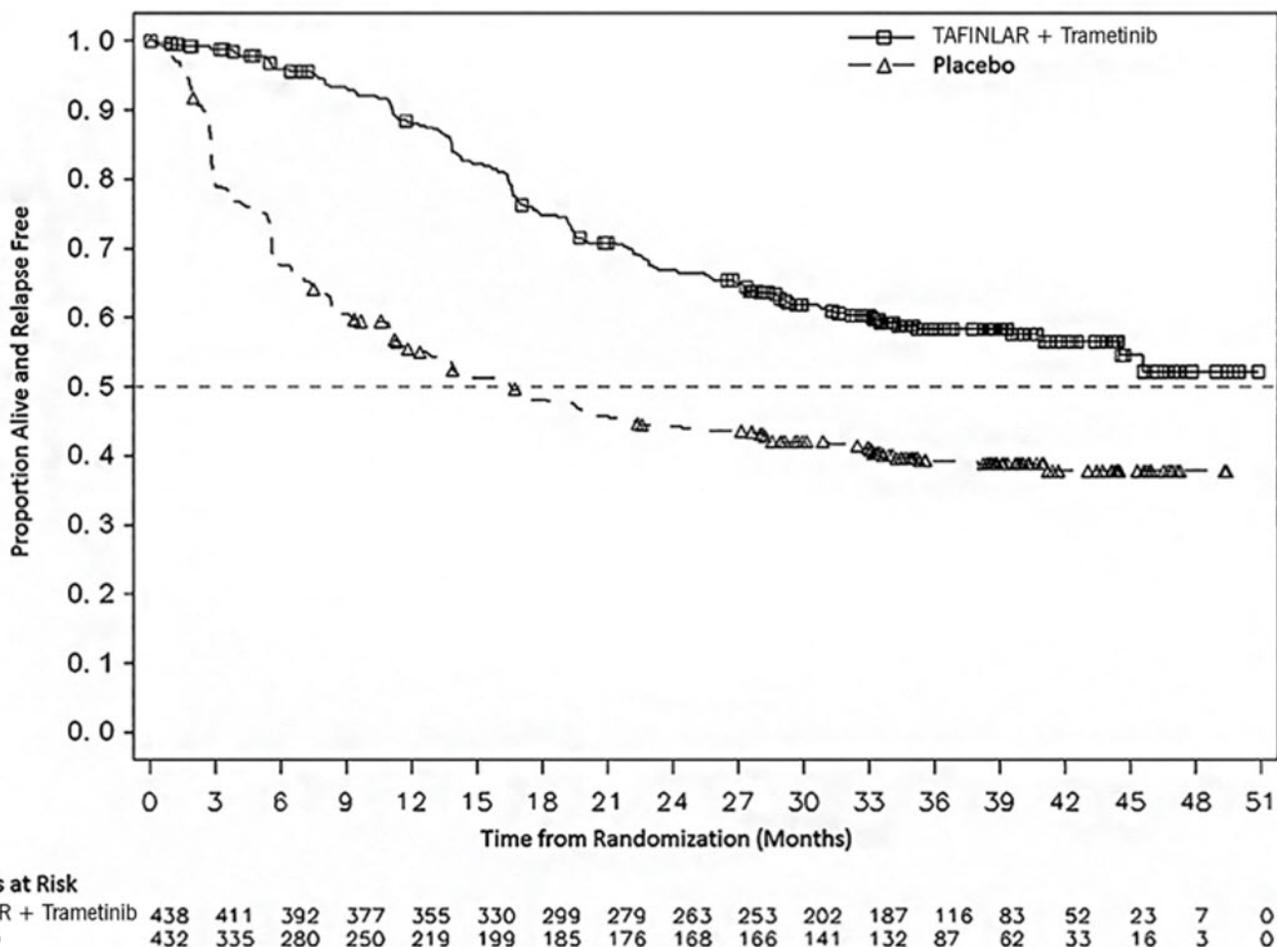
<b>Investigator-Assessed Endpoint</b>	<b>TAFINLAR plus Trametinib N = 438</b>	<b>Placebo N = 432</b>
<b>Relapse-Free Survival</b>		
Number of events (%)	166 (38)	248 (57)
Median, months (95% CI)	NE (44.5, NE)	16.6 (12.7, 22.1)
HR (95% CI) <sup>a</sup>	0.47 (0.39, 0.58)	
<i>P</i> value <sup>b</sup>	< 0.0001	

Abbreviations: CI, confidence interval;

HR, hazard ratio; NE, not estimable.

<sup>a</sup>Pike estimator obtained from the stratified log-rank test.

<sup>b</sup>Log-rank test stratified by disease stage (IIIA vs. IIIB vs. IIIC) and BRAF V600 mutation type (V600E vs. V600K).



**Figure 4. Kaplan-Meier Curves for Investigator-Assessed Relapse-Free Survival in COMBI-AD in the Adjuvant Treatment of Melanoma**

The median duration of follow-up at the time of the final overall survival analysis was 8.0 years. The estimated hazard ratio for overall survival was 0.80 (95% CI: 0.62, 1.01;  $p = 0.063$ ) with 125 events (29%) in the combination arm and 136 events (31%) in the placebo arm. Median overall survival was not estimable in both arms.

#### **14.4 BRAF V600E Mutation-Positive Metastatic Non-Small Cell Lung Cancer**

The safety and efficacy of TAFINLAR alone or administered with trametinib were evaluated in a multi-center, three-cohort, non-randomized, activity-estimating, open-label trial (Study BRF113928, NCT01336634). Key eligibility criteria were locally confirmed BRAF V600E mutation-positive metastatic NSCLC, no prior exposure to BRAF or MEK-inhibitor, and absence of EGFR mutation or ALK rearrangement (unless patients had

progression on prior tyrosine kinase inhibitor therapy). Patients enrolled in Cohorts A and B were required to have received at least one previous platinum-based chemotherapy regimen for NSCLC with demonstrated disease progression but no more than three prior systemic regimens. Patients enrolled in Cohort C could not have received prior systemic therapy for metastatic NSCLC. Patients in Cohort A received TAFINLAR 150 mg twice daily. Patients in Cohorts B and C received TAFINLAR 150 mg twice daily and trametinib 2 mg once daily. The major efficacy outcome measure was overall response rate (ORR) per RECIST v1.1 as assessed by independent review committee (IRC) and duration of response (DoR).

There were a total of 171 patients enrolled which included 78 patients enrolled in Cohort A, 57 patients enrolled in Cohort B, and 36 patients enrolled in Cohort C. The characteristics of the study population were: a median age of 66 years, 48% male; 81% White, 14% Asian, 3% Black, and 2% Hispanic; 60% former smokers, 32% never smokers, and 8% current smokers; 27% had ECOG performance status (PS) of 0, 63% had ECOG PS of 1, and 11% had ECOG PS of 2; 99% had metastatic disease of which 6% had brain metastasis at baseline and 14% had liver metastasis at baseline; 11% had systemic anti-cancer therapy in the adjuvant setting and 58% of the 135 previously treated patients had only one line of prior systemic therapy for metastatic disease; 98% had non-squamous histology.

Efficacy results are summarized in Table 23.

**Table 23. Efficacy Results Based on Independent Review in Study BRF113928**

<b>Treatment</b>	<b>TAFINLAR</b>		<b>TAFINLAR plus Trametinib</b>
<b>Population</b>	<b>Previously Treated N = 78</b>	<b>Previously Treated N = 57</b>	<b>Treatment Naïve N = 36</b>
<b>Overall Response Rate<sup>a</sup></b>			
ORR (95% CI)	27% (18%, 38%)	61% (48%, 74%)	61% (44%, 77%)
Complete response	1%	5%	8%
Partial response	26%	56%	53%
<b>Duration of Response<sup>a</sup></b>			
Median DoR, months (95% CI)	n = 21 18.0 (4.2, 40.1)	n = 35 9.0 (5.8, 26.2)	n = 22 15.2 (7.8, 23.5)

Abbreviations: CI, confidence interval; DoR, duration of response; ORR, overall response rate.

<sup>a</sup> Represents final analysis results (cutoff date of 24 Feb 2021) for the primary analysis responder cohorts.

In a subgroup analysis of patients with retrospectively, centrally confirmed BRAF V600E mutation-positive NSCLC with the Oncomine™ Dx Target Test, the ORR results were similar to those presented in Table 22.

#### **14.5 BRAF V600E Mutation-Positive Locally Advanced or Metastatic Anaplastic Thyroid Cancer**

The safety and efficacy of TAFINLAR administered with trametinib was evaluated in an activity-estimating, nine-cohort, multi-center, non-randomized, open-label trial (Study

BRF117019; NCT02034110) in patients with rare cancers with the BRAF V600E mutation, including locally advanced, unresectable, or metastatic ATC with no standard locoregional treatment options. Trial BRF117019 excluded patients who could not swallow or retain the medication; who received prior treatment with BRAF or MEK inhibitors; with symptomatic or untreated CNS metastases; or who had airway obstruction. Patients received TAFINLAR 150 mg twice daily and trametinib 2 mg once daily. The major efficacy outcome measure was overall response rate (ORR) per RECIST v1.1 as assessed by independent review committee (IRC) and duration of response (DoR).

Thirty-six patients were enrolled and were evaluable for response in the ATC cohort. The median age was 71 years (range: 47 to 85); 44% were male, 50% White, 44% Asian; and 94% had ECOG performance status of 0 or 1. Prior anti-cancer treatments included surgery and external beam radiotherapy (83% each), and systemic therapy (67%).

Efficacy results are summarized in Table 24.

**Table 24. Efficacy Results in the ATC Cohort Based on Independent Review of Study BRF117019**

<b>ATC Cohort Population</b>	<b>N = 36</b>
<b>Overall Response Rate</b>	
ORR (95% CI)	53% (35.5%, 69.6%)
Complete response	6%
Partial response	47%
<b>Duration of Response</b>	n = 19
Median DoR, months (95% CI)	13.6 (3.8, NE)
% with DoR ≥ 6 months	68%
% with DoR ≥ 12 months	53%

Abbreviations: ATC, anaplastic thyroid cancer; CI, confidence interval; DoR, duration of response; NE, not estimable; ORR, overall response rate.

#### **14.6 BRAF V600E Mutation-Positive Unresectable or Metastatic Solid Tumors**

The safety and efficacy of TAFINLAR in combination with trametinib for the treatment of BRAF V600E mutation-positive unresectable or metastatic solid tumors were evaluated in Trials BRF117019, NCI-MATCH, and CTMT212X2101, and supported by results in COMBI-d, COMBI-v [see *Clinical Studies (14.2)*], and BRF113928 [see *Clinical Studies (14.4)*]. In adult studies, patients received TAFINLAR 150 mg twice daily and trametinib 2 mg once daily. The major efficacy outcome measures were ORR per RECIST v1.1, RANO [HGG] or modified RANO [LGG] criteria and duration of response (DoR).

##### BRF117019 Study and NCI-MATCH Study

Study BRF117019 (NCT02034110) [see *Clinical Studies (14.5)*] is a multi-cohort, multi-center, non-randomized, open-label trial in adult patients with selected tumors with the BRAF V600E mutation, including high-grade glioma (HGG) (n = 45), biliary tract cancer (BTC) (n = 43), low-grade glioma (LGG) (n = 13), adenocarcinoma of small intestine (ASI) (n = 3), gastrointestinal stromal tumor (GIST) (n = 1), and anaplastic thyroid cancer [see *Clinical Studies (14.5)*]. Patients were enrolled based on local assessments of

BRAF V600E mutation status; a central laboratory confirmed the BRAF V600E mutation in 93 of 105 patients.

Arm H (EAY131-H) of the NCI-MATCH study (NCT02465060) is a single-arm, open-label study that enrolled patients with a BRAF V600E mutation. Patients with melanoma, thyroid cancer, or CRC were excluded. BRAF V600E mutation status for enrollment was determined either by central or local laboratory test. The study included adult patients with solid tumors including gastrointestinal tumors (n = 14), lung tumors (n = 7), gynecologic or peritoneal tumors (n = 6), CNS tumors (n = 4), and ameloblastoma of mandible (n = 1).

Among the 131 patients enrolled in BRF117019 and NCI-MATCH with the tumor types shown in Table 25, the baseline characteristics were: median age of 51 years with 20% age 65 or older; 56% female; 85% White, 9% Asian, 3% Black, 3% other; and 37% ECOG PS of 0, 56% ECOG PS of 1, and 6% ECOG PS of 2. Of the 131 patients, 90% received prior systemic therapy.

Efficacy results in patients with solid tumors are summarized in Table 25.

**Table 25. Efficacy Results Based on Independent Review in Studies BRF117019 and NCI-MATCH Arm H**

Tumor Type <sup>a</sup>	N	Objective Response Rate		Duration of Response
		%	95% CI	Range (months)
Biliary tract cancer <sup>b</sup>	48	46	(31, 61)	1.8 <sup>d</sup> , 40 <sup>d</sup>
High-grade glioma <sup>c</sup>	48	33	(20, 48)	3.9, 44
Glioblastoma	32	25	(12, 43)	3.9, 27
Anaplastic pleomorphic xanthoastrocytoma	6	67	(22, 96)	6, 43
Anaplastic astrocytoma	5	20	(0.5, 72)	15
Astroblastoma	2	100	(16, 100)	15, 23 <sup>d</sup>
Undifferentiated	1	PR	(2.5, 100)	6
Anaplastic ganglioglioma	1	0	NA	NA
Anaplastic oligodendroglioma	1	0	NA	NA
Low-grade glioma	14	50	(23, 77)	6, 29 <sup>d</sup>
Astrocytoma	4	50	(7, 93)	7, 23
Ganglioglioma	4	50	(7, 93)	6, 13
Pleomorphic xanthoastrocytoma	2	50	(1.3, 99)	6
Pilocytic astrocytoma	2	0	NA	NA
Choroid plexus papilloma	1	PR	(2.5, 100)	29 <sup>d</sup>
Gangliocytoma/ganglioglioma	1	PR	(2.5, 100)	18 <sup>d</sup>
Low-grade serous ovarian carcinoma	5	80	(28, 100)	12, 42 <sup>d</sup>
Adenocarcinoma small intestine	4	50	(7, 93)	7, 8
Adenocarcinoma pancreas	3	0	NA	NA

Mixed ductal/adenoneuroendocrine carcinoma	2	0	NA	NA
Neuroendocrine carcinoma of colon	2	0	NA	NA
Ameloblastoma of mandible	1	PR	(2.5, 100)	30
Combined small cell-squamous carcinoma of lung	1	PR	(2.5, 100)	5
Mucinous-papillary serous adenocarcinoma of peritoneum	1	PR	(2.5, 100)	8
Adenocarcinoma of anus	1	0	NA	NA
Gastrointestinal stromal tumor	1	0	NA	NA

Abbreviations: NA, not applicable; PR, partial response.

<sup>a</sup>Excludes NSCLC (n = 6) and ATC (n = 36) (previously approved tumor types for TAFINLAR in combination with trametinib).

<sup>b</sup>Median DoR 9.8 months (95% CI: 5.3, 20.4).

<sup>c</sup>Median DoR 13.6 months (95% CI: 5.5, 26.7).

<sup>d</sup>Denotes a right-censored DoR.

### CTMT212X2101 (X2101) Study

Study X2101 (NCT02124772) was a multi-center, open-label, multi-cohort study in pediatric patients with refractory or recurrent solid tumors. Part C was a dose escalation of TAFINLAR in combination with trametinib in patients with a BRAF V600E mutation. Part D was a cohort expansion phase of TAFINLAR in combination with trametinib in patients with LGG with a BRAF V600E mutation. The major efficacy outcome measure was ORR as assessed by independent review committee per RANO criteria.

The efficacy of TAFINLAR in combination with trametinib was evaluated in 48 pediatric patients, including 34 patients with LGG and 2 patients with HGG.

For patients with BRAF V600E mutation positive LGG and HGG in Parts C and D, the median age was 10 years (range: 1 to 17); 50% were male, 75% White, 8% Asian, 3% Black; and 58% had Karnofsky/Lansky performance status of 100. Prior anti-cancer treatments included surgery (83%), external beam radiotherapy (2.8%), and systemic therapy (92%). The ORR was 25% (95% CI: 12%, 42%). For the 9 patients who responded, DoR was  $\geq 6$  months for 78% of patients and  $\geq 24$  months for 44% of patients.

### CDRB436G2201 (G2201) Study - High-Grade Glioma Cohort

Study G2201 (NCT02684058) was a multi-center, randomized, open-label, Phase II study of dabrafenib and trametinib in chemotherapy-naïve pediatric patients with BRAF V600E mutant low-grade glioma (LGG) and patients with relapsed or progressive BRAF V600E mutant HGG. Patients with HGG were enrolled in a single-arm cohort. The major efficacy outcome measure for the HGG cohort was ORR as assessed by independent review committee per RANO 2010 criteria.

The efficacy of TAFINLAR in combination with trametinib was evaluated in 41 pediatric patients with relapsed or progressive HGG.

For patients with BRAF V600E mutant HGG enrolled in the HGG cohort, the median age

was 13 years (range: 2 to 17); 56% were female, 61% White, 27% Asian, 2.4% Black, and 37% had Karnofsky/Lansky performance status of 100. Prior anti-cancer treatments included surgery (98%), radiotherapy (90%), and chemotherapy (81%). The ORR was 56% (95% CI: 40, 72). The median DoR was not reached (95% CI: 9.2, NE). For the 23 patients who responded in the HGG cohort, DoR was  $\geq 6$  months for 78% of patients,  $\geq 12$  months for 48% of patients, and  $\geq 24$  months for 22% of patients.

## 14.7 BRAF V600E Mutation-Positive Low-Grade Glioma

### CDRB436G2201 (G2201) Study – Low-Grade Glioma Cohort

The safety and efficacy of TAFINLAR in combination with trametinib for the treatment of BRAF V600E mutation-positive low-grade glioma (LGG) in pediatric patients aged 1 to < 18 years of age were evaluated in the multi-center, open-label trial (Study CDRB436G2201; NCT02684058). Patients with LGG (WHO grades 1 and 2) who required first systemic therapy were randomized in a 2:1 ratio to dabrafenib plus trametinib (D + T) or carboplatin plus vincristine (C + V).

BRAF mutation status was identified prospectively via a local assessment or a central laboratory test. In addition, retrospective testing of available tumor samples by the central laboratory was performed to evaluate BRAF V600E mutation status.

Patients received age- and weight-based dosing of TAFINLAR and trametinib until loss of clinical benefit or until unacceptable toxicity. Carboplatin and vincristine were dosed based on body surface area at doses 175 mg/m<sup>2</sup> and 1.5 mg/m<sup>2</sup> (0.05 mg/kg for patients < 12 kg), respectively, as one 10-week induction course followed by eight 6-week cycles of maintenance therapy.

The major efficacy outcome measure was overall response rate (ORR) by independent review based on RANO LGG (2017) criteria. Additional efficacy outcome measures were progression-free survival and overall survival. The primary analysis was performed when all patients had completed at least 32 weeks of therapy.

In the LGG cohort, 110 patients were randomized to D + T (n = 73) or C + V (n = 37). Median age was 9.5 years (range: 1 to 17); 60% were female. Study G2201 showed a statistically significant improvement in ORR and PFS in LGG patients randomized to D + T compared to those randomized to C + V. Efficacy results are shown in Table 26.

**Table 26. Efficacy Results Based on Independent Review in Study G2201 (LGG Cohort)**

	<b>TAFINLAR plus Trametinib N = 73</b>	<b>Carboplatin plus Vincristine N = 37</b>
<b>Overall Response Rate</b>		
ORR% (95% CI) <sup>a</sup>	46.6 (34.8, 58.6)	10.8 (3.0, 25.4)
P-value	< 0.001	
Complete response, n (%)	2 (2.7)	1 (2.7)
Partial response, n (%)	32 (44)	3 (8)
<b>Duration of Response</b>		
Median (95% CI) <sup>b</sup> , months	23.7 (14.5, NE)	NE (6.6, NE)
% with observed DoR $\geq 12$	56	50

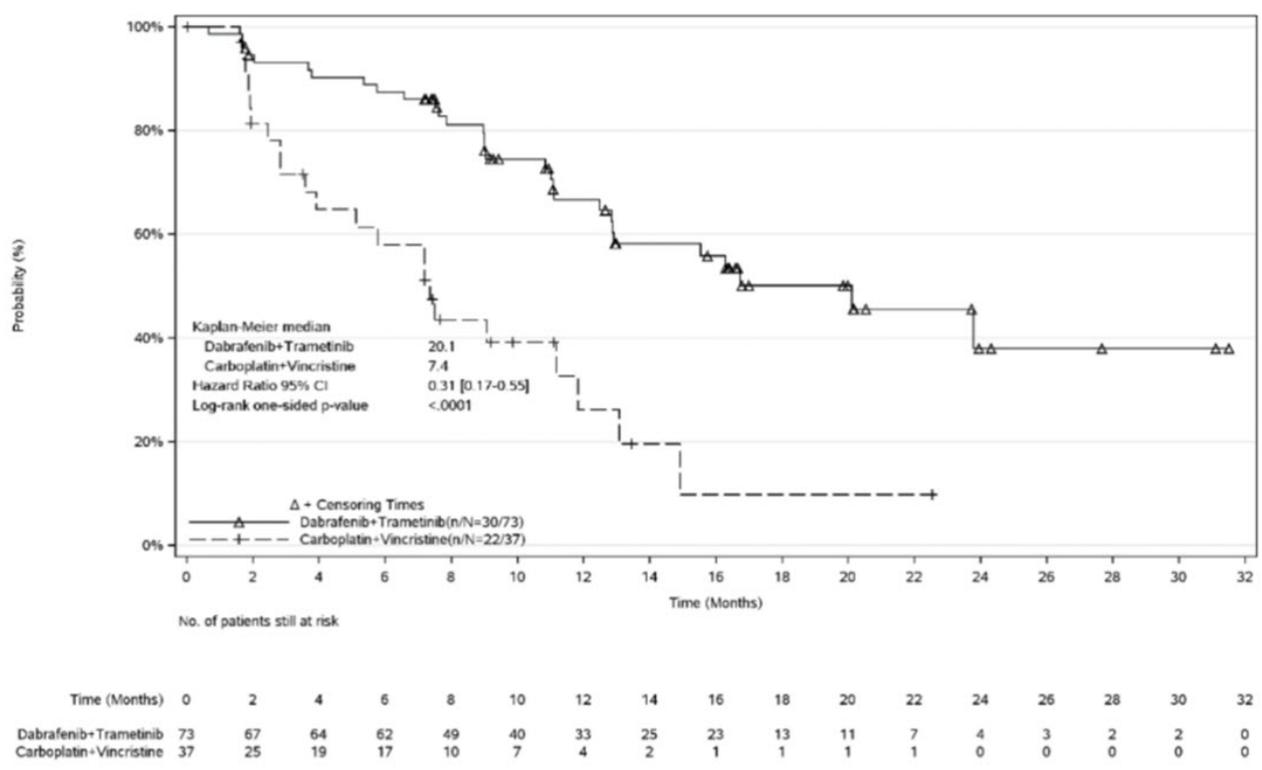
months	50	50
% with observed DoR $\geq$ 24 months	15	25
<b>Progression-Free Survival</b>		
Median (95% CI) <sup>b</sup> , months	20.1 (12.8, NE)	7.4 (3.6, 11.8)
Hazard ratio (95% CI) <sup>c</sup>	0.31 (0.17, 0.55)	
P-value	< 0.001	

Abbreviations: CI, confidence interval; DoR, duration of response; NE, not estimable; ORR, overall response rate.

<sup>a</sup> Based on Clopper-Pearson exact confidence interval.

<sup>b</sup> Based on Kaplan-Meier method.

<sup>c</sup> Based on proportional hazards model.



**Figure 5. Kaplan-Meier Curves for Progression-Free Survival in Study G2201 (LGG Cohort)**

At the time of the interim analysis of overall survival (OS), conducted when all patients had completed at least 32 weeks of treatment or had discontinued earlier, there was one death on the C + V arm. The OS results at interim analysis did not reach statistical significance.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

TAFINLAR Capsules:

50 mg capsules: Dark red capsule imprinted with 'GS TEW' and '50 mg' available in bottles of 120 with child-resistant closures (NDC 0078-0682-66). Each bottle contains a silica gel desiccant.

75 mg capsules: Dark pink capsule imprinted with 'GS LHF' and '75 mg' available in bottles of 120 with child-resistant closures (NDC 0078-0681-66). Each bottle contains a silica gel desiccant.

Store at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C and 30°C (59°F and 86°F) [see USP Controlled Room Temperature]. Store and dispense in the original bottle with the desiccant.

TAFINLAR Tablets for Oral Suspension:

10 mg tablets for oral suspension: white to slightly yellow, round biconvex 6 mm tablet debossed with "D" on one side and "NVR" on the other side. Available in bottles of 210 with child-resistant closures (NDC 0078-1154-21). Each bottle contains 2 silica gel desiccants.

Store at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C and 30°C (59°F and 86°F) [see USP Controlled Room Temperature]. Store and dispense in the original bottle with the desiccant.

## **17 PATIENT COUNSELING INFORMATION**

Advise the patient to read the FDA-approved patient labeling (Medication Guide and Instructions for Use).

### New Primary Cutaneous and Non-Cutaneous Malignancies

Advise patients that TAFINLAR increases the risk of developing new primary cutaneous and non-cutaneous malignancies. Advise patients to contact their healthcare provider immediately for any new lesions, changes to existing lesions on their skin, or signs and symptoms of other malignancies [see *Warnings and Precautions (5.1)*].

### Hemorrhage

Advise patients that TAFINLAR administered with trametinib increases the risk of intracranial and gastrointestinal hemorrhage. Advise patients to contact their healthcare provider to seek immediate medical attention for signs or symptoms of unusual bleeding or hemorrhage [see *Warnings and Precautions (5.3)*].

### Cardiomyopathy

Advise patients that TAFINLAR can cause cardiomyopathy and to immediately report any signs or symptoms of heart failure to their healthcare provider [see *Warnings and Precautions (5.4)*].

### Uveitis

Advise patients that TAFINLAR can cause uveitis, including iritis and iridocyclitis and to contact their healthcare provider if they experience any changes in their vision [see *Warnings and Precautions (5.5)*].

### Serious Febrile Reactions

Advise patients that TAFINLAR can cause pyrexia, including serious febrile reactions. Inform patients that the incidence and severity of pyrexia are increased when TAFINLAR is administered with trametinib. Instruct patients to contact their healthcare provider if they develop a fever while taking TAFINLAR [see *Warnings and Precautions (5.6)*].

## Serious Skin Toxicities

Advise patients that TAFINLAR can cause serious skin toxicities and to contact their healthcare provider for progressive or intolerable rash. Advise patients to contact their healthcare provider immediately if they develop signs and symptoms of a severe skin reaction [see *Warnings and Precautions (5.7)*].

## Hyperglycemia

Advise patients that TAFINLAR can impair glucose control in diabetic patients resulting in the need for more intensive hypoglycemic treatment and to contact their healthcare provider to report symptoms of severe hyperglycemia [see *Warnings and Precautions (5.8)*].

## Glucose-6-phosphate Dehydrogenase (G6PD) Deficiency

Advise patients that TAFINLAR may cause hemolytic anemia in patients with G6PD deficiency. Advise patients with known G6PD deficiency to contact their healthcare provider to report signs or symptoms of anemia or hemolysis [see *Warnings and Precautions (5.9)*].

## Embryo-Fetal Toxicity

- Advise pregnant women and females of reproductive potential of the potential risk to a fetus [see *Warnings and Precautions (5.12), Use in Specific Populations (8.1, 8.3)*].
- Advise females to contact their healthcare provider of a known or suspected pregnancy.
- Advise females of reproductive potential to use effective non-hormonal contraception during treatment and for 2 weeks after discontinuation of treatment with TAFINLAR.
- Advise male patients with female partners of reproductive potential to use condoms during treatment with TAFINLAR and for 2 weeks after the last dose.

## Lactation

Advise women not to breastfeed during treatment with TAFINLAR and for 2 weeks after the last dose of TAFINLAR [see *Use in Specific Populations (8.2)*].

## Infertility

Advise males and females of reproductive potential of the potential risk for impaired fertility with TAFINLAR [see *Use in Specific Populations (8.3)*].

## Administration

- Instruct patients to take TAFINLAR capsules on an empty stomach (at least 1 hour before or 2 hours after a meal) [see *Dosage and Administration (2.3)*].
- Instruct patients to take the oral suspension on an empty stomach (at least 1 hour before or 2 hours after a meal). Breastfeeding and/or baby formula may be given on demand if a pediatric patient is unable to tolerate the fasting conditions [see *Dosage and Administration (2.3)*].

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## MEDICATION GUIDE

**TAFINLAR® (TAFF-in-lar)  
(dabrafenib)  
capsules**

**TAFINLAR® (TAFF-in-lar)  
(dabrafenib)  
tablets for oral suspension**

**Important information:** If your healthcare provider prescribes TAFINLAR for you to be taken or given with trametinib, also read the Patient Information leaflet that comes with trametinib.

### **What is the most important information I should know about TAFINLAR?**

**TAFINLAR may cause serious side effects, including:**

**Risk of new cancers. TAFINLAR, when used alone or with trametinib, may cause skin cancers,** called cutaneous squamous cell carcinoma (cuSCC), keratoacanthoma, basal cell carcinoma, or melanoma.

Talk with your healthcare provider about your risk for these cancers.

Check your skin and tell your healthcare provider right away about any skin changes, including a:

- new wart
- skin sore or reddish bump that bleeds or does not heal
- change in size or color of a mole

Your healthcare provider should check your skin before treatment with TAFINLAR, every 2 months during treatment with TAFINLAR, and for up to 6 months after you stop taking TAFINLAR to look for any new skin cancers.

Your healthcare provider should also check for cancers that may not occur on the skin. Tell your healthcare provider about any new symptoms that develop during treatment with TAFINLAR.

See "**What are the possible side effects of TAFINLAR?**" for more information about side effects.

### **What is TAFINLAR?**

TAFINLAR is a prescription medicine used:

- alone or in combination with a medicine called trametinib to treat a type of skin cancer called melanoma:
  - that has spread to other parts of the body or cannot be removed by surgery, **and**
  - that has a certain type of abnormal "BRAF" gene.
- in combination with trametinib, to help prevent melanoma that has a certain type of abnormal "BRAF" gene from coming back after the cancer has been removed by surgery.
- in combination with trametinib to treat a type of lung cancer called non-small cell lung cancer (NSCLC):
  - that has spread to other parts of the body, **and**
  - that has a certain type of abnormal "BRAF" gene.
- in combination with trametinib to treat a type of thyroid cancer called anaplastic

thyroid cancer (ATC):

that has spread to other parts of the body and you have no satisfactory treatment options, **and**

that has a certain type of abnormal “BRAF” gene.

- in combination with trametinib to treat solid tumors in adults and children 1 year and older:

that cannot be removed with surgery or have spread to other parts of the body, and that have gotten worse (progressed), and you have no satisfactory treatment options, **and**

that have a certain type of abnormal “BRAF” gene.

- in combination with trametinib to treat a type of brain tumor called glioma in children 1 year and older:

that is low-grade glioma (LGG), **and**

that have a certain type of abnormal “BRAF” gene, **and**

who require a medicine by mouth or injection (systemic therapy).

TAFINLAR is not for use in treating people with colorectal cancer or wild-type BRAF solid tumors.

Your healthcare provider will perform a test to make sure that TAFINLAR is right for you. It is not known if TAFINLAR used in combination with trametinib is safe and effective in children less than 1 year of age.

It is not known if TAFINLAR used alone is safe and effective in children.

**Before you take or give TAFINLAR, tell your healthcare provider about all of your medical conditions, including if you:**

- have had bleeding problems
- have heart problems
- have eye problems
- have liver or kidney problems
- have diabetes
- plan to have surgery, dental, or other medical procedures
- have a deficiency of the glucose-6-phosphate dehydrogenase (G6PD) enzyme
- are pregnant or plan to become pregnant. TAFINLAR can harm your unborn baby.

**Females who are able to become pregnant:**

Your healthcare provider will do a test to see if you are pregnant before starting treatment with TAFINLAR.

You should use effective non-hormonal birth control (contraception) during treatment with TAFINLAR and for 2 weeks after your last dose of TAFINLAR.

Birth control methods that contain hormones (such as birth control pills, injections, or transdermal systems) may not work as well during treatment with TAFINLAR and you could become pregnant. You should use another effective method of birth control during treatment with TAFINLAR.

Talk to your healthcare provider about birth control methods that may be right for you during this time.

Tell your healthcare provider right away if you become pregnant or think you might be pregnant during treatment with TAFINLAR.

**Males (including those who have had a vasectomy) with a female partner who is able to become pregnant:**

Use condoms during sexual intercourse during treatment with TAFINLAR and for at least 2 weeks after your last dose of TAFINLAR.

- are breastfeeding or plan to breastfeed. It is not known if TAFINLAR passes into your

breast milk. Do not breastfeed during treatment and for 2 weeks after your last dose of TAFINLAR. Talk to your healthcare provider about the best way to feed your baby during this time.

**Tell your healthcare provider about all the medicines you take**, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Taking TAFINLAR with certain other medicines may affect the way TAFINLAR and the other medicines work and may increase your risk of side effects. Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

### **How should I take or give TAFINLAR?**

- Take or give TAFINLAR exactly as your healthcare provider tells you. Do not change your dose or stop TAFINLAR unless your healthcare provider tells you.
- Your healthcare provider may change your dose of TAFINLAR, temporarily stop, or completely stop your treatment with TAFINLAR if you develop certain side effects.
- If you miss a dose of TAFINLAR, take or give it as soon as you remember. **Do not take or give a missed dose of TAFINLAR if it is less than 6 hours before your next scheduled dose.** Just skip the missed dose and take or give the next dose of TAFINLAR at the regular time.
- If vomiting happens after taking or giving a dose of TAFINLAR, do not take or give an additional dose. Take or give the next dose of TAFINLAR at the regular time.

### **TAFINLAR capsules:**

- Take TAFINLAR 2 times a day, at the same time each day, about 12 hours apart.
- Take TAFINLAR on an empty stomach (at least 1 hour before or 2 hours after a meal).
- Take TAFINLAR capsules whole. Do not open, crush, or break TAFINLAR capsules.
- If TAFINLAR capsules are prescribed for your child weighing at least 57 pounds (26 kg), your child's healthcare provider will adjust their dose as your child grows.
- Tell your healthcare provider if you or your child is not able to swallow TAFINLAR capsules whole.

### **TAFINLAR tablets for oral suspension:**

- If TAFINLAR tablets for oral suspension are prescribed for your child, your child's healthcare provider will adjust their dose as your child grows.
- TAFINLAR tablets for oral suspension are to be taken or given as a suspension only.
- **Do not** swallow whole, chew or crush TAFINLAR tablets for oral suspension.
- See the "Instructions for Use" that comes with the medicine for instructions on how to correctly prepare and take or give a dose of the TAFINLAR oral suspension.
- After the TAFINLAR tablets for oral suspension are dispersed into an oral suspension, take or give the medicine right away from a dosing cup, oral syringe or feeding tube (10 French gauge or larger for 1 to 3 tablets, 12 French gauge or larger for 4 to 15 tablets).
- Take or give TAFINLAR oral suspension 2 times a day, at the same time each day, about 12 hours apart.
- Take or give each dose of TAFINLAR oral suspension on an empty stomach (at least 1 hour before or 2 hours after a meal). If necessary, breastfeeding or baby formula may be given on demand.
- Throw away (dispose of) the prepared TAFINLAR oral suspension if it is not used

within 30 minutes.

## **What are the possible side effects of TAFINLAR?**

### **TAFINLAR may cause serious side effects, including:**

- **See “What is the most important information I should know about TAFINLAR?”**
- **bleeding problems.** TAFINLAR, when taken or given with trametinib, can cause serious bleeding problems, especially in your brain or stomach, that can lead to death. Call your healthcare provider and get medical help right away if you have any signs of bleeding, including:
  - headaches, dizziness, or feeling weak
  - cough up blood or blood clots
  - vomit blood or your vomit looks like “coffee grounds”
  - red or black stool that looks like tar
- **heart problems**, including heart failure. Your healthcare provider should check your heart function before and during treatment with TAFINLAR. Call your healthcare provider right away if you have any of the following signs and symptoms of a heart problem:
  - feeling like your heart is pounding, racing, or beating irregularly
  - shortness of breath
  - swelling of your ankles or feet
  - feeling lightheaded
- **eye problems.** TAFINLAR can cause severe eye problems that can lead to blindness. Call your healthcare provider right away if you get these symptoms of eye problems:
  - blurred vision, loss of vision, or other vision changes
  - see color dots
  - halo (see blurred outline around objects)
  - eye pain, swelling, or redness
- **fever.** Fever is common during treatment with TAFINLAR, but may also be serious. When taking TAFINLAR with trametinib, fever may happen more often or may be more severe. In some cases, chills or shaking chills, too much fluid loss (dehydration), low blood pressure, dizziness, or kidney problems may happen with the fever.

### **Call your healthcare provider right away if you get a fever during treatment with TAFINLAR.**

Your healthcare provider may temporarily or permanently stop your treatment or change your dose of TAFINLAR with trametinib if you have fevers. Your healthcare provider will treat you as needed for your fever and any signs and symptoms of infection and should check your kidney function during and after you have had severe fever.

- **serious skin reactions.** Skin rash is a common side effect of TAFINLAR. TAFINLAR can also cause other skin reactions. In some cases, these rashes and other skin reactions can be severe or serious and may need to be treated in a hospital or lead to death.

Tell your healthcare provider if you get a skin rash or acne that bothers you or worsens.

### **Tell your healthcare provider right away if you develop any new or worsening symptoms of a severe skin reaction, including:**

- blisters or peeling of your skin
- mouth sores

- blisters on your lips, or around your mouth or eyes
- high fever or flu-like symptoms
- enlarged lymph nodes

- **increased blood sugar (hyperglycemia).** Some people may develop high blood sugar or worsening diabetes during treatment with TAFINLAR. If you are diabetic, your healthcare provider should check your blood sugar levels closely before and during treatment with TAFINLAR. Your diabetes medicine may need to be changed. Tell your healthcare provider if you have any of the following symptoms of severe high blood sugar:
  - increased thirst
  - urinating more often than normal, or urinating an increased amount of urine
- **TAFINLAR may cause healthy red blood cells to break down too early in people with G6PD deficiency.** This may lead to a type of anemia called hemolytic anemia where the body does not have enough healthy red blood cells. Tell your healthcare provider if you have any of the following signs or symptoms:
  - yellow skin (jaundice)
  - weakness or dizziness
  - shortness of breath
- **hemophagocytic lymphohistiocytosis (HLH).** TAFINLAR when taken or given with trametinib may increase the risk of a type of overactivity of the immune system (hemophagocytic lymphohistiocytosis) that can cause fever, swollen glands, bruising, or skin rash. If you experience a combination of these symptoms, call your healthcare provider right away.

**The most common side effects of TAFINLAR when taken alone include:**

- thickening of the outer layers of the skin
- headache
- fever
- joint aches
- warts
- hair loss
- redness, swelling, peeling, or tenderness of hands or feet

**The most common side effects of TAFINLAR when taken with trametinib in people with melanoma that has spread to other parts of the body or cannot be removed by surgery include:**

- fever
- rash
- chills
- headache
- joint aches
- cough

**The most common side effects of TAFINLAR when taken with trametinib to help prevent melanoma from coming back after the cancer has been removed by surgery include:**

- fever
- tiredness
- nausea
- headache
- rash
- chills
- diarrhea
- vomiting
- joint aches
- muscle aches

**The most common side effects of TAFINLAR when taken with trametinib in people with NSCLC include:**

- fever
- tiredness
- nausea
- vomiting
- diarrhea
- dry skin
- decreased appetite
- rash
- swelling of face, arms, and legs
- chills
- bleeding
- cough
- shortness of breath

**The most common side effects of TAFINLAR when taken with trametinib in adults with solid tumors that cannot be removed by surgery or have spread to other parts of the body include:**

- fever
- tiredness
- nausea
- rash
- chills
- headache
- bleeding
- cough
- vomiting
- constipation
- diarrhea
- muscle and joint aches
- swelling of your arms and legs

**The most common side effects of TAFINLAR when taken or given with trametinib in children 1 year of age and older with solid tumors that cannot be removed by surgery or have spread to other parts of the body include:**

- fever
- rash
- vomiting
- tiredness
- dry skin
- cough
- diarrhea
- acne
- headache
- stomach-area (abdominal) pain
- nausea
- bleeding
- constipation
- skin infection around fingernails or toenails

**The most common side effects of TAFINLAR when taken or given with trametinib in children 1 year of age and older with low-grade glioma include:**

- fever
- rash
- headache
- vomiting
- muscle and bone pain
- tiredness
- diarrhea
- dry skin
- nausea
- bleeding
- stomach-area (abdominal) pain
- acne

TAFINLAR may cause fertility problems in females. This could affect your ability to become pregnant. Talk to your healthcare provider if this is a concern for you.

TAFINLAR may cause lower sperm counts in males. This could affect the ability to father a child. Talk to your healthcare provider if this is a concern for you.

These are not all of the possible side effects of TAFINLAR.

Call your healthcare provider for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

You may also report side effects to Novartis Pharmaceuticals Corporation at 1-888-669-6682.

**How should I store TAFINLAR?**

**TAFINLAR Capsules:**

- Store TAFINLAR capsules at room temperature between 68°F to 77°F (20°C to 25°C).
- Keep TAFINLAR capsules in the original bottle.
- The bottle of TAFINLAR capsules contains a canister with a drying agent (desiccant) to help keep your medicine dry. Do not throw away the desiccant canister.

**TAFINLAR tablets for oral suspension:**

- Store the bottle of TAFINLAR tablets for oral suspension at room temperature between 68°F to 77°F (20°C to 25°C).
- Store the bottle of TAFINLAR tablets for oral suspension, along with the two plastic canisters inside the original packaging, with the cap tightly closed. The canisters contain a drying agent (desiccant) to help keep your medicine dry.
- TAFINLAR tablets for oral suspension come in a bottle with a child-resistant cap.
- Throw away any TAFINLAR oral suspension if it is not taken or given within 30 minutes after it is prepared.

**Keep TAFINLAR and all medicines out of the reach of children.****General information about the safe and effective use of TAFINLAR**

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use TAFINLAR for a condition for which it was not prescribed. Do not give TAFINLAR to other people, even if they have the same symptoms that you have. It may harm them. You can ask your healthcare provider or pharmacist for information about TAFINLAR that is written for health professionals.

**What are the ingredients in TAFINLAR?****TAFINLAR Capsules:**

**Active ingredient:** dabrafenib

**Inactive ingredients:** colloidal silicon dioxide, magnesium stearate, and microcrystalline cellulose.

Capsule shells: hypromellose, red iron oxide (E172), titanium dioxide (E171).

**TAFINLAR Tablets for oral suspension:**

**Active ingredient:** dabrafenib

**Inactive ingredients:** acesulfame potassium, artificial berry flavor, colloidal silicone dioxide, crospovidone, hypromellose, magnesium stearate, mannitol, microcrystalline cellulose.

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For more information, go to [www.us.tafinlarmekinist.com](http://www.us.tafinlarmekinist.com) or call 1-888-669-6682.

This Medication Guide has been approved  
by the U.S. Food and Drug Administration.

Revised: March 2025

T2025-23

**INSTRUCTIONS FOR USE**  
**TAFINLAR® (TAFF-in-lar)**  
**(dabrafenib)**  
**tablets for oral suspension**

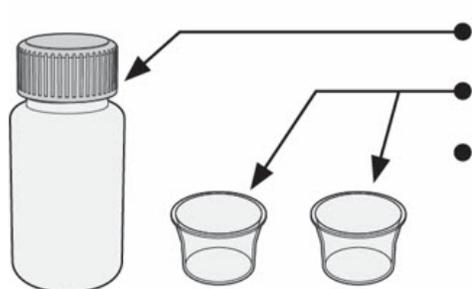
This "Instructions for Use" contains information on how to prepare and take or give

TAFINLAR tablets for oral suspension.

### **Important information you need to know before taking or giving TAFINLAR tablets for oral suspension**

- Read this “Instructions for Use” carefully before you prepare and take or give TAFINLAR oral suspension for the first time and each time you get a refill. There may be new information.
- This “Instructions for Use” does not take the place of talking with your healthcare provider about your or your child’s medical condition and treatment.
- Your healthcare provider or pharmacist should show you how to prepare and take or give a dose of TAFINLAR oral suspension correctly. Always take or give TAFINLAR exactly as your healthcare provider tells you to.
- If you have any questions about how to prepare and take or give a dose of TAFINLAR oral suspension, talk to your healthcare provider or pharmacist.
- Always use the dosing cup that comes with your TAFINLAR pack. If your pack does not contain a dosing cup, contact your healthcare provider or pharmacist.
- Use only clean water to rinse. **Do not** use soap or dishwashing liquid to clean the dosing cup.
- If at any time TAFINLAR oral suspension gets on your or your child’s skin, wash the area well with soap and water.
- If at any time TAFINLAR oral suspension gets in your or your child’s eyes, rinse the eyes well with cool water.
- If you spill any TAFINLAR oral suspension, follow the instructions at the end of this “Instructions for Use” in **Section E. “How to clean up any spilled TAFINLAR oral suspension”**.
- You will receive the TAFINLAR tablets in a sealed bottle. The TAFINLAR tablets must be mixed in water before taking or giving a dose of TAFINLAR oral suspension. The tablets break apart (disperse) in the water and may not fully dissolve. Follow the instructions below to mix the tablets in water.

### **The TAFINLAR pack should contain:**



- 1 bottle containing TAFINLAR tablets
- 2 reusable dosing cups
- Instructions for Use leaflet (this document) and Medication Guide

You will also need drinking water.

For taking or giving a dose of the TAFINLAR oral suspension by swallowing, go to Section A. For taking or giving a dose of the TAFINLAR oral suspension through a feeding tube or using an oral syringe, go to Section B.

### **Section A. Preparing and taking or giving a dose of the TAFINLAR oral suspension by swallowing directly from the dosing cup**

If any of the TAFINLAR oral suspension comes into contact with your skin or eyes when you are following the steps below, follow instructions in the section **“Important information you need to know before taking or giving TAFINLAR tablets for oral suspension”**.

To prepare and take or give a dose of TAFINLAR oral suspension, you will need:

- the prescribed number of tablets
- 1 dosing cup
- 1 teaspoon
- drinking water

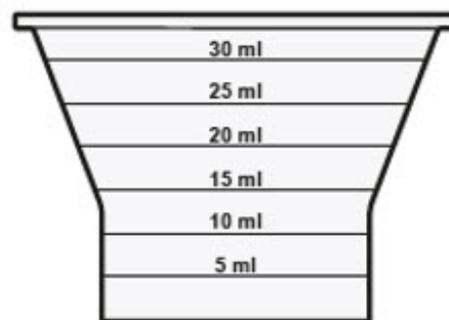
To take or give a dose of TAFINLAR oral suspension by mouth (swallowing the TAFINLAR oral suspension), you or your child can drink it directly from the dosing cup.

**Step 1.** Wash and dry your hands before preparing TAFINLAR tablets as an oral suspension.

- Add cool drinking water up to the markings on the dosing cup, as follows:

**Note:** The amount of water does not need to be exact.

- If the prescribed dose is 1 to 4 tablets, you will need about 5 mL of water.
- If the prescribed dose is 5 to 15 tablets, you will need about 10 mL of water.



**Step 2.** Remove the bottle cap by pushing down and turning counter-clockwise in the direction of the arrow, as shown.

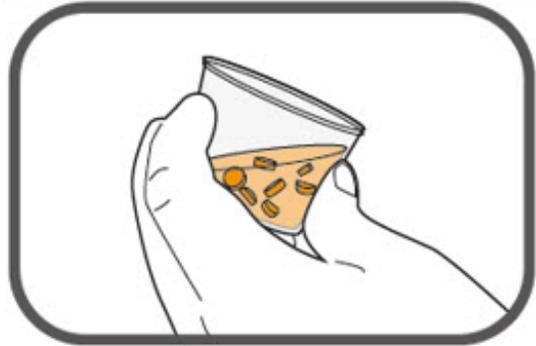
- **Do not** throw away (dispose of) the cap.
- If you are opening the bottle for the first time, remove the seal from the bottle.



**Step 3.** Count out the prescribed number of tablets into your hand.



- Add the prescribed number of tablets into the water in your dosing cup.



- The bottle contains 2 plastic canisters to keep the tablets dry. If either canister falls out when you are taking out the tablets, re-insert it back into the bottle.



**Step 4.** Place the cap back onto the bottle and turn it clockwise in the direction of the arrow, as shown to close it.

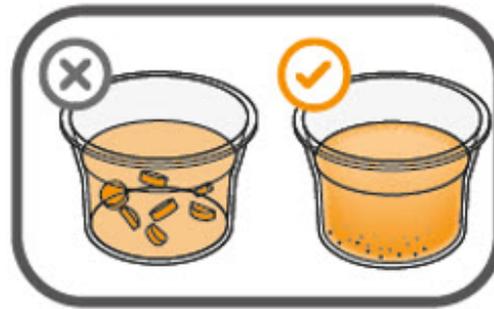
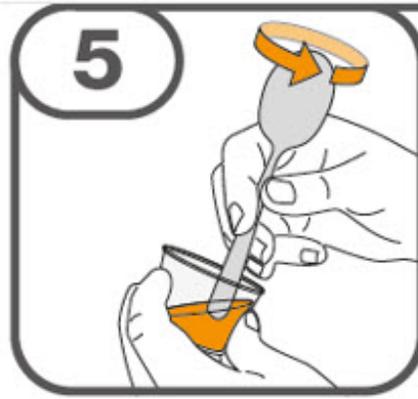


**Step 5.** With one hand, tilt the dosing cup.

- With your other hand, gently stir the

With your other hand, gently stir the water and tablets with the handle of a teaspoon until the tablets break apart (disperse).

- It may take **3 minutes** or more for the tablets to disperse. After the tablets disperse, the TAFINLAR oral suspension should be cloudy white, but may contain small pieces.
- **Take or give the TAFINLAR oral suspension no later than 30 minutes after the tablets have been dispersed in water.**
- If more than 30 minutes have passed, throw away the TAFINLAR oral suspension following the instructions in Section D and restart from the beginning of Section A. If you are not sure how to throw away the TAFINLAR oral suspension, ask your healthcare provider or pharmacist.



**Step 6.** Drink the TAFINLAR oral suspension from the dosing cup.

**Important:** After swallowing, there will be some medicine residue still inside the dosing cup. The medicine residue may be difficult to see. Follow **Steps 7 through 9** to take or give any medicine residue still in the dosing cup so that you give the full dose of TAFINLAR.



**Step 7. Add about 5 mL of water** to the empty dosing cup.



**Step 8. Stir** with the handle of a teaspoon to loosen the remaining medicine residue.



**Step 9.** Drink the water and medicine residue mixture.



- **If the prescribed dose is 1 to 4 tablets: Do Steps 7 through 9 one time.**
- **If the prescribed dose is 5 to 15 tablets: Do Steps 7 through 9 two times.**

It is important to take or give **all of the medicine residue so that you get the full dose of TAFINLAR.**

**Step 10.** Go to **Section C. “Cleaning the dosing cup and oral syringe (if used)”**.

**Section B. Preparing and giving TAFINLAR tablets as an oral suspension via feeding tube or oral syringe**

**Important administration information**

Make sure all the tablets are dispersed before taking or giving the TAFINLAR oral suspension.

**The minimum feeding tube size you may use to give the TAFINLAR oral suspension:**

- If the prescribed dose is 1 to 3 tablets, the feeding tube size that may be used is 10 French gauge or larger.
- If the prescribed dose is 4 to 15 tablets, the feeding tube size that may be used is 12 French gauge or larger.
- If any of the TAFINLAR oral suspension comes into contact with your skin or eyes when you are following the steps below, follow the instructions in the section **“Important information you need to know before taking or giving TAFINLAR tablets for oral suspension”**.
- If any of the TAFINLAR oral suspension spills, follow the instruction in **Section E. “How to clean up any spilled TAFINLAR oral suspension”**.
- Wash and dry your hands before giving a dose of TAFINLAR oral suspension.

**Step 1. Follow Steps 1 through 5 in Section A to disperse the TAFINLAR**

**tablets.** If using a feeding tube, flush the feeding tube with drinking water then continue with Step 2 below.

**Step 2. Draw up all of the TAFINLAR oral suspension** from the dosing cup into an oral syringe by pulling back on the plunger. Be sure to use an oral syringe that can be used with the feeding tube or that can be used to give the TAFINLAR oral suspension by mouth. Ask your healthcare provider if you are not sure what oral syringe to use.



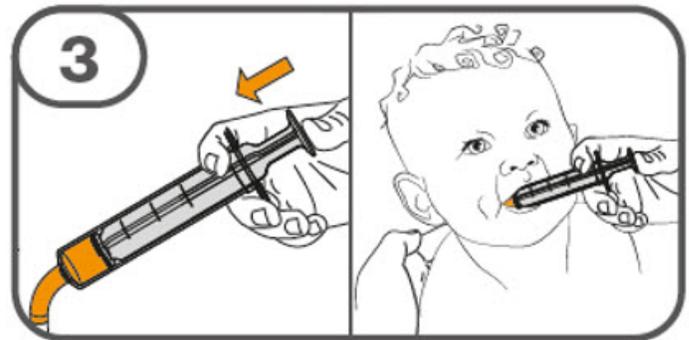
**Step 3.** If giving the dose through a feeding tube, give the TAFINLAR oral suspension into the feeding tube according to the feeding tube manufacturer's instructions.

If giving a dose of TAFINLAR oral suspension using an oral syringe, place the open end of the oral syringe inside the mouth with the tip pointing toward the inside of either cheek. If you are giving a dose of the TAFINLAR oral suspension to a child, make sure they are sitting upright.

Slowly push the plunger all the way down to give the full dose of TAFINLAR oral suspension.

**Warning:** Giving TAFINLAR oral suspension directly into the throat or pushing down on the plunger too fast may cause choking.

**Step 4. Add about 5 mL of water** to the empty dosing cup.



**Step 5. Stir** with the handle of a teaspoon to loosen the remaining medicine residue inside the dosing cup.



**Step 6. Draw up** the water and medicine residue mixture.



**Step 7. Give the water and medicine residue mixture through** the feeding tube or into the inside of the cheek.



- It is important to **give all of the medicine residue that is left in the oral syringe and feeding tube. Repeat Steps 4 through 7 three times to make sure that you give a full dose of TAFINLAR.**

**Step 8.** After repeating **Steps 4 through 7** three times, flush the feeding tube with drinking water. Then go to the cleaning steps in Section C.

### **Section C. Cleaning the dosing cup and oral syringe (if used)**

**Use only clean water to rinse the dosing cup. Do not** use soap or dishwashing liquid when cleaning the dosing cup.

**Step 1.** Rinse the dosing cup under clean cool water right away after dosing.

- Shake off excess water then wipe dry using clean paper towels.

**Note:** Keep the dosing cup away from other kitchen items.



**Step 2.** Rinse the teaspoon in clean cold water then wash in warm soapy water and dry using clean paper towels.

- You can also wash the teaspoon in a dishwasher.



**Step 3.** Clean the used oral syringe, as instructed by your healthcare provider, or according to the manufacturer's instructions.



**Section D. How to throw away TAFINLAR tablets or oral suspension that are expired or no longer needed, or old dosing cups**

- Throw away unused TAFINLAR tablets or oral suspension, or old dosing cups into the trash. Do not pour TAFINLAR oral suspension down the drain.
- Ask your healthcare provider or pharmacist about how to safely throw away TAFINLAR tablets or oral suspension if you are not sure.

**Section E. How to clean up any spilled TAFINLAR oral suspension**

If you accidentally spill any TAFINLAR oral suspension, clean up the spill as follows:

1. Put on plastic gloves.
2. Soak up the spilled TAFINLAR oral suspension completely using an absorbent material, such as paper towels soaked with either a mixture of water and household disinfectant or with ethanol 70% (or higher grade).

3. Repeat the cleaning with fresh soaked absorbent material at least three times until the area is clean.
4. Dry the area with paper towels.
5. Throw away all the disposable materials used to clean the spillage into a sealable plastic bag.
6. Throw away the bags into the trash.
7. Wash your hands well with soap and water.

**How should I store TAFINLAR tablets for oral suspension?**

- Store the bottle of TAFINLAR tablets for oral suspension at room temperature between 68°F to 77°F (20°C to 25°C).
- Store the bottle of TAFINLAR tablets for oral suspension, along with the two plastic canisters inside the original packaging, with the cap tightly closed. The canisters contain a drying agent (desiccant) to help keep your medicine dry.
- TAFINLAR tablets for oral suspension come in a bottle with a child-resistant cap.
- Throw away any TAFINLAR oral suspension if it is not taken or given within 30 minutes after it is prepared.

**Keep TAFINLAR and all medicines out of the reach of children.**

Distributed by:  
Novartis Pharmaceuticals Corporation  
East Hanover, New Jersey 07936

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This Instructions for Use has been  
approved by the U.S. Food and Drug  
Administration.

Revised: March 2024

T2024-24

**PRINCIPAL DISPLAY PANEL**

NDC 0078-0682-66

Tafinlar®  
(Dabrafenib) Capsules

50 mg

Rx only

120 Capsules

Dispense with Medication Guide attached or provided separately.

NOVARTIS

NDC 0078-0682-66  
**Tafinlar<sup>®</sup>**  
 (Dabrafenib) Capsules  
**50 mg**  
 Rx only  
 120 Capsules  
 Dispense with Medication Guide attached or provided separately.

Each capsule contains 59.25 mg dabrafenib mesylate equivalent to 50 mg dabrafenib.  
 Dosage: See accompanying prescribing information.  
 Manufactured by: Novartis d.o.o. Ljubljana, Slovenia  
 Distributed by: Novartis Pharmaceuticals Corp. East Hanover, NJ 07936  
 Product of China

Store at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C and 30°C (59°F and 86°F) [see USP Controlled Room Temperature].  
 Store and dispense in the original bottle with the desiccant.  
 Do not use if printed safety seal under cap is broken or missing.

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 46344844 US

### PRINCIPAL DISPLAY PANEL

NDC 0078-0681-66

Tafinlar<sup>®</sup>  
(Dabrafenib) Capsules

75 mg

Rx only

120 Capsules

Dispense with Medication Guide attached or provided separately.

NOVARTIS

NDC 0078-0681-66  
**Tafinlar<sup>®</sup>**  
 (Dabrafenib) Capsules  
**75 mg**  
 Rx only  
 120 Capsules  
 Dispense with Medication Guide attached or provided separately.

Each capsule contains 88.88 mg dabrafenib mesylate equivalent to 75 mg dabrafenib.  
 Dosage: See accompanying prescribing information.  
 Manufactured by: Novartis d.o.o. Ljubljana, Slovenia  
 Distributed by: Novartis Pharmaceuticals Corp. East Hanover, NJ 07936  
 Product of China

Store at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C and 30°C (59°F and 86°F) [see USP Controlled Room Temperature].  
 Store and dispense in the original bottle with the desiccant.  
 Do not use if printed safety seal under cap is broken or missing.

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### PRINCIPAL DISPLAY PANEL

NDC 0078-1154-21

Rx only

Tafinlar®  
(dabrafenib)

Tablets for Oral Suspension\*

10 mg per tablet

\*DISPERSE TABLETS IN WATER PRIOR TO INGESTION.

DO NOT SWALLOW WHOLE, CHEW OR CRUSH.

Dispense and store in original container with the desiccant\*\*.

Dispense with Medication Guide.

210 Tablets

NOVARTIS



## TAFINLAR

dabrafenib capsule

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0078-0682
<b>Route of Administration</b>	ORAL		

**Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
DABRAFENIB MESYLATE (UNII: B6DC89I63E) (DABRAFENIB - UNII:QGP4HA4G1B)	DABRAFENIB	50 mg

**Inactive Ingredients**

Ingredient Name	Strength
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	
HYPROMELLOSES (UNII: 3NXW29V3WO)	
FERRIC OXIDE RED (UNII: 1K09F3G675)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	

**Product Characteristics**

Color	RED	Score	no score
Shape	OVAL	Size	18mm
Flavor		Imprint Code	GSTEW;50mg
Contains			

**Packaging**

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0078-0682-66	120 in 1 BOTTLE; Type 0: Not a Combination Product	04/12/2016	

**Marketing Information**

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA202806	04/12/2016	

**TAFINLAR**

dabrafenib capsule

**Product Information**

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0078-0681
Route of Administration	ORAL		

**Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
DABRAFENIB MESYLATE (UNII: B6DC89I63E) (DABRAFENIB - UNII:QGP4HA4G1B)	DABRAFENIB	75 mg

## Inactive Ingredients

Ingredient Name	Strength
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	
HYPROMELLOSES (UNII: 3NXW29V3WO)	
FERRIC OXIDE RED (UNII: 1K09F3G675)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	

## Product Characteristics

Color	RED	Score	no score
Shape	OVAL	Size	20mm
Flavor		Imprint Code	GSLHF;75mg
Contains			

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0078-0681-66	120 in 1 BOTTLE; Type 0: Not a Combination Product	04/01/2016	

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA202806	04/01/2016	

## TAFINLAR

dabrafenib tablet, for suspension

## Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0078-1154
Route of Administration	ORAL		

## Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
DABRAFENIB MESYLATE (UNII: B6DC89I63E) (DABRAFENIB - UNII:QGP4HA4G1B)	DABRAFENIB	10 mg

## Inactive Ingredients

Ingredient Name	Strength
ACESULFAME POTASSIUM (UNII: 230V73Q5G9)	

<b>SILICON DIOXIDE</b> (UNII: ETJ7Z6XBU4)	
<b>CROSPROVIDONE, UNSPECIFIED</b> (UNII: 2S7830E561)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6I30)	
<b>HYPROMELLOSES</b> (UNII: 3NXW29V3WO)	
<b>MANNITOL</b> (UNII: 3OWL53L36A)	
<b>CELLULOSE, MICROCRYSTALLINE</b> (UNII: OP1R32D61U)	

### Product Characteristics

<b>Color</b>	WHITE (white to slightly yellow)	<b>Score</b>	no score
<b>Shape</b>	ROUND (biconvex)	<b>Size</b>	6mm
<b>Flavor</b>	BERRY	<b>Imprint Code</b>	D;NVR
<b>Contains</b>			

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0078-1154-21	210 in 1 BOTTLE; Type 0: Not a Combination Product	03/16/2023	

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA217514	03/16/2023	

**Labeler** - Novartis Pharmaceuticals Corporation (002147023)

Revised: 4/2025

Novartis Pharmaceuticals Corporation