
HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use KISQALI safely and effectively. See full prescribing information for KISQALI.		
KISQALI [®] (ribociclib) tablets, for oral use Initial U.S. Approval: 2017		
RECENT MAJOR CHANGES		
Indications and Usage (1.1, 1.2)	09/2024	
Dosage and Administration (2.1, 2.2)	09/2024	
Warnings and Precautions (5.1, 5.3, 5.5, 5.6)	09/2024	
INDICATIONS AND USAGE		
KISQALI is a kinase inhibitor indicated:		
 in combination with an aromatase inhibitor for the adjuvant treatment of a (HR)-positive, human epidermal growth factor receptor 2 (HER2)-negative cancer at high risk of recurrence. (1) 	stage II and III early breast	
 for the treatment of adults with HR-positive, HER2-negative advanced or r combination with: 	metastatic breast cancer in	
 an aromatase inhibitor as initial endocrine-based therapy; or fulvestrant as initial endocrine-based therapy or following disease prog (1) 	ression on endocrine therapy.	
KISQALI tablets are taken orally with or without food in combination with an a fulvestrant. (2) Early Breast Cancer		
 Recommended starting dose: 400 mg orally (two 200 mg tablets) taken o for 21 consecutive days followed by 7 days off treatment. (2.1) 	nce daily with or without food	
 <u>Advanced or Metastatic Breast Cancer</u> Recommended starting dose: 600 mg orally (three 200 mg tablets) taken food for 21 consecutive days followed by 7 days off treatment. (2.1) 	once daily with or without	
Dose interruption, reduction, and/or discontinuation may be required based tolerability. (2.2)	on individual safety and	
DOSAGE FORMS AND STRENGTHS Tablets: 200 mg (3)		
CONTRAINDICATIONS		
None. (4)		
 Interstitial Lung Disease (ILD)/Pneumonitis: Patients treated with CDK 4/6 monitored for pulmonary symptoms indicative of ILD/pneumonitis. Interru new or worsening respiratory symptoms suspected to be due to ILD/pneu discontinue KISQALI in patients with recurrent symptomatic or severe ILD/ Severe Cutaneous Adverse Reactions (SCARs): Stevens-Johnson syndrom necrolysis (TEN), and drug-reaction with eosinophilia and systemic symptom KISQALI treatment. Permanently discontinue KISQALI in patients with SCA cutaneous reactions. (2.2, 5.2) 	pt and evaluate patients with monitis. Permanently /pneumonitis. (2.2, 5.1) ne (SJS), toxic epidermal oms (DRESS) can occur with	
 QT Interval Prolongation: Monitor electrocardiograms (ECGs) and electroly treatment with KISQALI. Repeat ECGs at approximately Day 14 of the first indicated. Monitor electrolytes at the beginning of each cycle for 6 cycles, Avoid using KISQALI with drugs known to prolong QT interval and/or strong 	cycle, and as clinically and as clinically and as clinically indicated.	

7.1, 7.4)

- Increased QT Prolongation with Concomitant Use of Tamoxifen: KISQALI is not indicated for concomitant use with tamoxifen. (5.4)
- Hepatotoxicity: Increases in serum transaminase and bilirubin levels have been observed. Perform liver function tests (LFTs) before initiating treatment with KISQALI. Monitor LFTs every 2 weeks for the first 2 cycles, at the beginning of each subsequent 4 cycles, and as clinically indicated. (2.2, 5.5)
- Neutropenia: Perform complete blood count (CBC) before initiating therapy with KISQALI. Monitor CBC every 2 weeks for the first 2 cycles, at the beginning of each subsequent 4 cycles, and as clinically indicated. (2.2, 5.6)
- Embryo-Fetal Toxicity: Can cause fetal harm. Advise females of reproductive potential of potential risk to a fetus and to use effective contraception during therapy. (5.7, 8.1, 8.3)

ADVERSE REACTIONS

- In patients with early breast cancer, the most common (incidence ≥ 20%) adverse reactions, including laboratory abnormalities, are lymphocytes decreased, leukocytes decreased, neutrophils decreased, hemoglobin decreased, alanine aminotransferase increased, aspartate aminotransferase increased, infections, creatinine increased, platelets decreased, headache, nausea, and fatigue. (6)
- In patients with advanced or metastatic breast cancer, the most common (incidence ≥ 20%) adverse reactions, including laboratory abnormalities, are leukocytes decreased, neutrophils decreased, hemoglobin decreased, lymphocytes decreased, aspartate aminotransferase increased, gamma glutamyl transferase increased, alanine aminotransferase increased, infections, nausea, creatinine increased, fatigue, platelets decreased, diarrhea, vomiting, headache, constipation, alopecia, cough, rash, back pain, and glucose serum decreased. (6)

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.

- ----- DRUG INTERACTIONS ------
- CYP3A Inhibitors: Avoid concomitant use of KISQALI with strong CYP3A inhibitors. If strong inhibitors cannot be avoided, reduce KISQALI dose. (2.2, 7.1)
- CYP3A4 Inducers: Avoid concomitant use of KISQALI with strong CYP3A inducers. (7.2)
- CYP3A Substrates: The dose of CYP3A substrates may need to be reduced when given concurrently with KISQALI. (7.3)
- Drugs Known to Prolong QT Interval: Avoid concomitant use of drugs known to prolong QT interval, such as anti-arrhythmic medicines. (7.4)

Lactation: Advise not to breastfeed. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 9/2024

FULL PRESCRIBING INFORMATION: CONTENTS*

1 INDICATIONS AND USAGE

- 1.1 Early Breast Cancer
- 1.2 Advanced or Metastatic Breast Cancer

2 DOSAGE AND ADMINISTRATION

- 2.1 Recommended Dosage
- 2.2 Dose Modifications
- **3 DOSAGE FORMS AND STRENGTHS**
- 4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

- 5.1 Interstitial Lung Disease/Pneumonitis
- 5.2 Severe Cutaneous Adverse Reactions
- 5.3 QT Interval Prolongation

- 5.4 Increased QT Prolongation with Concomitant Use of Tamoxifen
- 5.5 Hepatotoxicity
- 5.6 Neutropenia
- 5.7 Embryo-Fetal Toxicity

6 ADVERSE REACTIONS

- 6.1 Clinical Trials Experience
- 6.2 Postmarketing Experience

7 DRUG INTERACTIONS

- 7.1 Drugs That May Increase Ribociclib Plasma Concentrations
- 7.2 Drugs That May Decrease Ribociclib Plasma Concentrations
- 7.3 Effect of KISQALI on Other Drugs
- 7.4 Drugs That Prolong the QT Interval

8 USE IN SPECIFIC POPULATIONS

- 8.1 Pregnancy
- 8.2 Lactation
- 8.3 Females and Males of Reproductive Potential
- 8.4 Pediatric Use
- 8.5 Geriatric Use
- 8.6 Hepatic Impairment
- 8.7 Renal Impairment

11 DESCRIPTION

12 CLINICAL PHARMACOLOGY

- 12.1 Mechanism of Action
- 12.2 Pharmacodynamics
- 12.3 Pharmacokinetics

13 NONCLINICAL TOXICOLOGY

- 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
- 13.2 Animal Toxicology and/or Pharmacology

14 CLINICAL STUDIES

- 14.1 Early Breast Cancer
- 14.2 Advanced or Metastatic Breast Cancer

16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION

 \ast Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Early Breast Cancer

KISQALI is indicated in combination with an aromatase inhibitor for the adjuvant treatment of adults with hormone receptor (HR)-positive, human epidermal growth factor receptor 2 (HER2)-negative stage II and III early breast cancer at high risk of recurrence.

1.2 Advanced or Metastatic Breast Cancer

KISQALI is indicated for the treatment of adults with HR-positive, HER2-negative advanced or metastatic breast cancer in combination with:

- an aromatase inhibitor as initial endocrine-based therapy; or
- fulvestrant as initial endocrine-based therapy or following disease progression on endocrine therapy.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage

Important Administration Instructions

KISQALI can be taken with or without food [see Clinical Pharmacology (12.3)].

Pre/perimenopausal women, or men, treated with the combination KISQALI plus an aromatase inhibitor or fulvestrant, should be treated with a luteinizing hormone-releasing hormone (LHRH) agonist according to current clinical practice standards.

Patients should take their dose of KISQALI at approximately the same time each day, preferably in the morning.

If the patient vomits after taking the dose, or misses a dose, no additional dose should be taken that day. The next prescribed dose should be taken at the usual time. KISQALI tablets should be swallowed whole (tablets should not be chewed, crushed or split prior to swallowing). No tablet should be ingested if it is broken, cracked, or otherwise not intact.

Early Breast Cancer

The recommended dosage of KISQALI is 400 mg (two 200 mg film-coated tablets) taken orally, once daily for 21 consecutive days followed by 7 days off in 28-day treatment cycles. KISQALI should be given in combination with an aromatase inhibitor. Refer to the Full Prescribing Information for the recommended dosage of the aromatase inhibitor.

In patients with early breast cancer, treatment with KISQALI should continue for 3 years or until disease recurrence or unacceptable toxicity occurs.

Advanced or Metastatic Breast Cancer

The recommended dosage of KISQALI is 600 mg (three 200 mg film-coated tablets) taken orally, once daily for 21 consecutive days followed by 7 days off in 28-day treatment cycles. KISQALI should be given in combination with endocrine therapy (fulvestrant or an aromatase inhibitor). Refer to the Full Prescribing Information for the recommended dose of endocrine therapy.

2.2 Dose Modifications

Dose Modifications for Adverse Reactions

The recommended dose modifications for adverse reactions are listed in Table 1.

Table 1: Recommended Dose Modification for Adverse Reactions

Level	KISQALI		
	Dose	Number of tablets	
Early breast cancer			
Starting dose	400 mg/day	two 200 mg tablets	
Dose reduction	200 mg/day *	one 200 mg tablet	
Advanced or metastation	c breast cancer		
Starting dose	600 mg/day	three 200 mg tablets	
First dose reduction	400 mg/day	two 200 mg tablets	
Second dose reduction	200 mg/day *	one 200 mg tablet	
*If dose reduction below 200 mg/day is required, discontinue KISQALI.			

Tables 2, 3, 4, 5, 6, and 7 summarize recommendations for dose interruption, reduction, or discontinuation of KISQALI in the management of specific adverse reactions. Dose modification of KISQALI is recommended based on individual patient safety and tolerability.

Table 2: Dose Modification and Management for Interstitial LungDisease/Pneumonitis

	Grade 1 (asymptomatic)	Grade 2 (symptomatic)	Grade 3 (severe symptomatic) or 4 (life- threatening)
ILD/Pneumonitis [see Warnings and Precautions (5.1)]	No dose interruption or adjustment is required. Initiate appropriate medical therapy and monitor as clinically indicated.	Dose interruption until recovery to Grade ≤ 1 then consider resuming KISQALI at the next lower dose level*. If Grade 2 recurs, discontinue KISQALI.	Discontinue KISQALI.

Abbreviation: ILD, interstitial lung disease.

Grading according to Common Terminology Criteria for Adverse Events (CTCAE) version 4.03.

*An individualized benefit-risk assessment should be performed when considering resuming KISQALI.

Table 3: Dose Modification and Management for Cutaneous AdverseReactions, Including SCARs

Grade 1	Grade 2	Grade 3	Grade 4
(< 10% body	(10%-30% BSA	(severe rash not	(any % BSA
surface area	with active skin	responsive to	associated with
(BSA) with active	toxicity, no signs	medical	extensive
skin toxicity, no	-	management; >	
5	involvement)	30% BSA with	with IV antibiotics
systemic		active skin	indicated; life
involvement)		toxicity, signs of	threatening

		systemic involvement present; SJS*)	consequences; TEN**)
Cutaneous adverse reactions, including SCARs [see Warnings and Precautions (5.2)]	No dose adjustment is required. Initiate appropriate medical therapy and monitor as clinically indicated.	Interrupt KISQALI until the etiology of the reaction has been determined If the etiology is a SCAR, permanently discontinue KISQALI. If the etiology is not a SCAR, interrupt dose until recovery to Grade ≤ 1, then resume KISQALI at same dose level. If the cutaneous adverse reaction still recurs at Grade 3, resume KISQALI at the	KISQALI. a
		next lower dose level.	

Abbreviations: BSA, body surface area; SCARs, severe cutaneous adverse reactions; SJS, Stevens-Johnson syndrome; TEN, toxic epidermal necrolysis.

*SJS (Grade 3 and 4) is defined as skin sloughing covering < 10% BSA and 10%-30% BSA, respectively, with associated signs (e.g., erythema, purpura, epidermal detachment, and mucous membrane detachment).

**TEN (Grade 4) is defined as skin sloughing covering \geq 30% BSA with associated symptoms (e.g., erythema, purpura, epidermal detachment, and mucous membrane detachment).

Grading according to Common Terminology Criteria for Adverse Events (CTCAE) version 4.03.

Table 4: Dose Modification and Management for QT Prolongation

QTcF* prolongation	Early breast cancer	Advanced or metastatic breast cancer
> 480 ms and ≤ 500 ms	Interrupt KISQALI treatment and wait until QTcF resolves to \leq 480 ms	
	Resume at the same dose	Reduce to the next lower dose level

	If QTcF > 480 ms recurs, interrupt KISQALI treatment and wait until QTcF resolves to \leq 480 ms, then resume at next lower dose level.
> 500 ms	Interrupt KISQALI treatment and wait until QTcF resolves to \leq 480 ms, then resume at next lower dose level. If QTcF > 500 ms recurs, discontinue KISQALI.

Permanently discontinue KISQALI if QTcF interval prolongation is either > 500 ms or > 60 ms change from baseline AND associated with any of the following: Torsades de Pointes, polymorphic ventricular tachycardia, syncope, or signs/symptoms of serious arrhythmia.

Note: If dose reduction below 200 mg/day is required, discontinue KISQALI. Electrocardiograms (ECGs) should be assessed prior to initiation of treatment in all patients.

Repeat ECGs at approximately Day 14 of the first cycle, and as clinically indicated. In case of QTcF prolongation at any given time during treatment, monitor ECG more frequently, and as clinically indicated

 * QTcF = QT interval corrected by Fridericia's formula.

	Grade 1 (> ULN - 3 x ULN)	Grade 2 (> 3 to 5 x ULN)	Grade 3 (> 5 to 20 x ULN)	Grade 4 (> 20 x ULN)
AST and/or ALT elevations from baseline*, WITHOUT increase in total bilirubin above 2 x ULN [see Warnings and Precautions (5.5)]	adjustment is	Baseline* at < Grade 2: Dose interruption until recovery to ≤ baseline grade, then resume KISQALI at same dose level. If Grade 2 recurs, resume KISQALI at next lower dose level. Baseline* at Grade 2: No dose interruption.	until recovery to ≤ baseline* grade, then resume at next lower dose level. If Grade 3 recurs, discontinue	
Combined If patients develop ALT and/or AST > 3 x ULN along with total bilirub elevations in > 2 x ULN irrespective of baseline grade, discontinue KISQALI. AST and/or ALT WITH total bilirubin increase, in the absence of cholestasis [see Warnings] If patients develop ALT and/or AST > 3 x ULN along with total bilirub				

and Precautions (5.5)]

Perform Liver Function Tests (LFTs) before initiating treatment with KISQALI.

Monitor LFTs every 2 weeks for the first 2 cycles, at the beginning of each subsequent 4 cycles, and as clinically indicated.

If Grade \geq 2 abnormalities are noted, monitor more frequently, and as clinically indicated.

Abbreviations: AST, aspartate aminotransferase; ALT, alanine aminotransferase; ULN, upper limit of normal.

*Baseline = prior to treatment initiation.

Grading according to Common Terminology Criteria for Adverse Events (CTCAE) version 4.03.

	Grade 1 or 2 (ANC 1000/mm ³ - < LLN)	Grade 3 (ANC 500 - < 1000/mm ³)	Grade 3 febrile* neutropenia	Grade 4 (ANC < 500/mm ³)
Neutropenia [see Warnings and Precautions (5.6)]	No dose adjustment is	recovery to Grade ≤ 2 . Resume KISQALI	Dose interruption until recovery of neutropenia to Grade ≤ 2. Resume KISQALI eat the next lower dose level.	interruption until recovery to Grade ≤ 2 . Resume KISQALI
	KISQALI. Monitor CBC eve	ry 2 weeks for the	BCs) before initiat e first 2 cycles, at clinically indicated.	

Table 6: Dose Modification and Management for Neutropenia

Abbreviations: ANC, absolute neutrophil count; LLN, lower limit of normal. *Grade 3 neutropenia with single episode of fever > 38.3°C (or) 38°C or above for more than one hour and/or concurrent infection.

Grading according to Common Terminology Criteria for Adverse Events (CTCAE) version 4.03.

Table 7: Dose Modification and Management for Other Toxicities*

	Grade 1 or 2	Grade 3	Grade 4
Other Toxicities	No dose	Dose interruption	Discontinue
	adjustment is	until recovery to	KISQALI.
	required. Initiate	Grade ≤ 1 then	
	appropriate medica	alresume KISQALI at	

therapy and same dose level. monitor as clinically If Grade 3 recurs, indicated. resume KISQALI at the next lower dose level.

*Excluding interstitial lung disease (ILD)/pneumonitis, cutaneous adverse reactions, including severe cutaneous adverse reactions (SCARs), QT interval prolongation, hepatobiliary toxicity, and neutropenia. Grading according to Common Terminology Criteria for Adverse Events (CTCAE) version 4.03.

Refer to the Full Prescribing Information for the coadministered aromatase inhibitor or fulvestrant for dose modification guidelines in the event of toxicity and other relevant safety information.

Dose Modification for Use with Strong CYP3A Inhibitors

Avoid concomitant use of KISQALI with strong CYP3A inhibitors and consider an alternative concomitant medication with less potential for CYP3A inhibition [see Drug Interactions (7.1)].

If a strong CYP3A inhibitor must be coadministered, reduce the KISQALI dose as shown in Table 8.

Table 8: Dose Modification for Usewith Strong CYP3A Inhibitors

Indication	Co-administration with Strong CYP3A Inhibitors
Early breast cancer	Reduce the KISQALI dose to 200 mg once daily.
Advanced or metastatic breast cancer	Reduce the KISQALI dose to 400 mg once daily.

If the strong inhibitor is discontinued, change the KISQALI dose (after at least 5 half-lives of the strong CYP3A inhibitor) to the dose used prior to the initiation of the strong CYP3A inhibitor *[see Drug Interactions (7.1), Clinical Pharmacology (12.3)]*.

Dose Modification for Hepatic Impairment

The recommended dose modifications for patients with hepatic impairment are shown in Table 9 [see Use in Specific Populations (8.6), Clinical Pharmacology (12.3)].

Table 9: Dose Modification for HepaticImpairment

Mild Moderate and hepatic severe hepatic

Indication	(Child- Pugh class A)	impairment (Child-Pugh class B or C)
Early	No dose	No dose
breast	adjustment	adjustment is
cancer	is necessary	necessary
Advanced		
or	No dose	KISQALI 400 mg
	adjustment	once daily
breast	is necessary	
cancer		

Review the Full Prescribing Information for the co-administered aromatase inhibitor or fulvestrant for dose modifications related to hepatic impairment.

Dose Modification for Severe Renal Impairment

The recommended starting dose is 200 mg KISQALI once daily for patients with severe renal impairment [see Use in Specific Populations (8.7), Clinical Pharmacology (12.3)].

3 DOSAGE FORMS AND STRENGTHS

Tablet: 200 mg ribociclib (equivalent to 254.40 mg ribociclib succinate).

Film coated, light greyish violet, round, curved with beveled edges, debossed with "RIC" on one side and "NVR" on the other side.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Interstitial Lung Disease/Pneumonitis

Severe, life-threatening, or fatal interstitial lung disease (ILD) and/or pneumonitis can occur in patients treated with KISQALI and other CDK 4/6 inhibitors.

In patients with early breast cancer (NATALEE) who received 400 mg KISQALI plus a non-steroidal aromatase inhibitor (NSAI), 1.5% of patients had ILD/pneumonitis (Grade 1-2).

In patients with advanced or metastatic breast cancer (MONALEESA-2, MONALEESA-3, MONALEESA-7), 1.6% of patients had ILD/pneumonitis (any Grade, 0.4% had Grade 3-4, and 0.1% had a fatal outcome). Additional cases of ILD/pneumonitis have occurred in the postmarketing setting, some resulting in death [see Adverse Reactions (6.2)].

Monitor patients for pulmonary symptoms indicative of ILD/pneumonitis which may include hypoxia, cough, and dyspnea. In patients who have new or worsening respiratory symptoms suspected to be due to ILD or pneumonitis, interrupt KISQALI immediately and evaluate the patient. Permanently discontinue KISQALI in patients with severe ILD/pneumonitis or any recurrent symptomatic ILD/pneumonitis [see Dosage and Administration (2.2)].

5.2 Severe Cutaneous Adverse Reactions

Severe cutaneous adverse reactions (SCARs), including Stevens-Johnson syndrome (SJS), toxic epidermal necrolysis (TEN), and drug-induced hypersensitivity syndrome (DiHS)/drug reaction with eosinophilia and systemic symptoms (DRESS) can occur in patients treated with KISQALI *[see Adverse Reactions (6.2)]*.

If signs or symptoms of severe cutaneous reactions occur, interrupt KISQALI until the etiology of the reaction has been determined [see Dosage and Administration (2.2)]. Early consultation with a dermatologist is recommended to ensure greater diagnostic accuracy and appropriate management.

If SJS, TEN, or DiHS/DRESS is confirmed, permanently discontinue KISQALI. Do not reintroduce KISQALI in patients who have experienced SCARs or other life-threatening cutaneous reactions during KISQALI treatment.

5.3 QT Interval Prolongation

KISQALI has been shown to prolong the QT interval in a concentration-dependent manner [see Clinical Pharmacology (12.2)].

Avoid KISQALI in patients who are at significant risk of developing Torsades de Pointes (TdP), including those with:

- congenital long QT syndrome;
- uncontrolled or significant cardiac disease, recent myocardial infarction, heart failure, unstable angina, bradyarrhythmias, uncontrolled hypertension, high degree atrioventricular block, severe aortic stenosis, or uncontrolled hypothyroidism;
- electrolyte abnormalities;
- taking drugs known to prolong QT interval and/or strong CYP3A inhibitors as this may lead to prolongation of the QTcF interval.

Based on the observed QT prolongation during treatment, KISQALI may require dose interruption, reduction or discontinuation as described in Table 4 [see Dosage and Administration (2.2), Drug Interactions (7.4)].

In patients with early breast cancer (NATALEE) who received 400 mg KISQALI plus NSAI, 8 out of 2494 patients (0.3%) had > 500 ms post-baseline QTcF interval value and 50 out of 2494 patients (2%) had > 60 ms QTcF increase from baseline. QTcF prolongation was reversible with dose interruption. The majority of QTcF prolongation occurred within the first four weeks of KISQALI. There were no reported cases of Torsades de Pointes.

In patients with advanced or metastatic breast cancer (MONALEESA-2, MONALEESA-3, and MONALEESA-7) who received 600 mg KISQALI plus NSAI or fulvestrant, 15 out of 1054 patients (1.4%) had a > 500 ms post-baseline QTcF value and 61 out of 1054 patients (6%) had a > 60 ms QTcF increase from baseline. QTcF prolongation was reversible with dose interruption. The majority of QTcF prolongation occurred within the first four weeks of KISQALI. There were no reported cases of Torsades de Pointes.

In MONALEESA-2, in the KISQALI plus letrozole treatment arm, there was one (0.3%) sudden death in a patient with Grade 3 hypokalemia and Grade 2 QT prolongation. No

cases of sudden death were reported in MONALEESA-7 or MONALEESA-3 [see Adverse Reactions (6)].

Perform ECG in all patients prior to starting KISQALI. Initiate treatment with KISQALI only in patients with QTcF values less than 450 ms. Repeat ECG at approximately Day 14 of the first cycle, and as clinically indicated.

Monitor serum electrolytes (including potassium, calcium, phosphorous and magnesium) prior to the initiation of KISQALI at the beginning of the first 6 cycles, and as clinically indicated. Correct any abnormality before starting KISQALI [see Dosage and Administration (2.2)].

5.4 Increased QT Prolongation with Concomitant Use of Tamoxifen

Avoid use of tamoxifen with KISQALI. In MONALEESA-7, the observed mean QTcF increase from baseline was > 10 ms higher in the tamoxifen plus placebo subgroup compared with the non-steroidal aromatase inhibitors (NSAIs) plus placebo subgroup. In the placebo arm, an increase of > 60 ms from baseline occurred in 6/90 (7%) of patients receiving tamoxifen, and in no patients receiving an NSAI. An increase of > 60 ms from baseline in the QTcF interval was observed in 14/87 (16%) of patients in the KISQALI and tamoxifen combination and in 18/245 (7%) of patients receiving KISQALI plus an NSAI [see Clinical Pharmacology (12.2)].

5.5 Hepatotoxicity

In patients with early and advanced or metastatic breast cancer, drug-induced liver injury and increases in transaminases occurred with KISQALI.

In patients with early breast cancer (NATALEE) treated with KISQALI, drug-induced liver injury was reported in 9 patients (0.4%), of which 5 were Grade \geq 3, and 8 had resolved as of the data cutoff. There were 8 (0.3%) clinically confirmed Hy's Law cases (including 4 out of 9 drug-induced liver injury mentioned above), 6 of which had resolved within 303 days and 2 of which were improving, all after discontinuation of KISQALI. Grade 3 or 4 increases in alanine aminotransferase (ALT) and aspartate aminotransferase (AST) occurred in 8% and 4.7% respectively; including Grade 4 increases in ALT (1.5%) and AST (0.8%).

In patients with advanced or metastatic breast cancer (MONALEESA-2, MONALEESA-7 and MONALEESA-3) treated with KISQALI Grade 3 or 4 increases in ALT and AST occurred in 11% and 8%, respectively. Among the patients who had Grade \geq 3 ALT/AST elevation, the median time-to-onset was 92 days for the KISQALI plus aromatase inhibitor or fulvestrant treatment arms. The median time to resolution to Grade \leq 2 was 21 days in the KISQALI plus aromatase inhibitor or fulvestrant treatment arms. In MONALEESA-2 and MONALEESA-3, concurrent elevations in ALT or AST greater than three times the ULN and total bilirubin greater than two times the ULN, with normal alkaline phosphatase, in the absence of cholestasis (Hy's Law) occurred in 6 (1%) patients and all patients recovered after discontinuation of KISQALI.

Perform liver function tests (LFTs) in all patients before initiating KISQALI. Monitor LFTs every 2 weeks for first 2 cycles, at the beginning of each of the subsequent 4 cycles, and as clinically indicated [see Dosage and Administration (2.2)].

Based on the severity of the transaminase elevations, KISQALI may require dose interruption, reduction, or discontinuation as described in Table 5 (Dose Modification and

Management for Hepatobiliary Toxicity) [see Dosage and Administration (2.2)].

5.6 Neutropenia

KISQALI causes concentration-dependent neutropenia.

In patients with early breast cancer (NATALEE) who received KISQALI plus NSAI, 94%, including 45% of Grade 3 or 4, had a decrease in neutrophil counts (based on laboratory findings), 63% had an adverse reaction of neutropenia, and 0.3% had febrile neutropenia. The median time to Grade \geq 2 neutropenia was 18 days. The median time to resolution of Grade \geq 3 neutropenia to Grade < 3 was 10 days. Treatment discontinuation due to neutropenia was required in 1.1% of patients.

In patients with advanced or metastatic breast cancer (MONALEESA-2, MONALEESA-7, and MONALEESA-3) who received KISQALI plus NSAI or fulvestrant, 75% had neutropenia, 62% had Grade 3 or 4 decrease in neutrophil count (based on laboratory findings), and 1.7% had febrile neutropenia. The median time to Grade \geq 2 neutropenia was 17 days. The median time to resolution of Grade \geq 3 neutropenia to Grade < 3 was 12 days. Treatment discontinuation due to neutropenia was required in 1% of patients.

Perform a complete blood count (CBC) in all patients before initiating KISQALI. Monitor CBC every 2 weeks for the first 2 cycles, at the beginning of each subsequent 4 cycles, and as clinically indicated.

Based on the severity of the neutropenia, KISQALI may require dose interruption, reduction, or discontinuation as described in Table 6 [see Dosage and Administration (2.2)].

5.7 Embryo-Fetal Toxicity

Based on findings from animal studies and the mechanism of action, KISQALI can cause fetal harm when administered to a pregnant woman. In animal reproduction studies, administration of ribociclib to pregnant rats and rabbits during organogenesis caused embryo-fetal toxicities at maternal exposures that were 0.6 and 1.5 times the human clinical exposure, respectively, based on area under the curve (AUC). Advise pregnant women of the potential risk to a fetus. Advise women of reproductive potential to use effective contraception during therapy with KISQALI and for at least 3 weeks after the last dose [see Use in Specific Populations (8.1, 8.3), Clinical Pharmacology (12.1)].

6 ADVERSE REACTIONS

The following adverse reactions are discussed in greater detail in other sections of the labeling:

- Interstitial Lung Disease/Pneumonitis [see Warnings and Precautions (5.1)]
- Severe Cutaneous Adverse Reactions [see Warnings and Precautions (5.2)]
- QT Interval Prolongation [see Warnings and Precautions (5.3, 5.4)]
- Hepatotoxicity [see Warnings and Precautions (5.5)]
- Neutropenia [see Warnings and Precautions (5.6)]

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.

The data described in WARNINGS AND PRECAUTIONS reflect exposure to KISQALI plus non-steroidal aromatase inhibitor (NSAI) in 2526 patients with early breast cancer (NATALEE), of whom 51% completed 36 months of KISQALI treatment. The most common (\geq 20%) adverse reactions, including laboratory abnormalities, were lymphocytes decreased (97%), leukocytes decreased (95%), neutrophils decreased (94%), hemoglobin decreased (47%), alanine aminotransferase increased (45%), aspartate aminotransferase increased (44%), infections (37%), creatinine increased (33%), platelets decreased (28%), headache (23%), nausea (23%), and fatigue (22%).

In addition, the pooled safety population described in the WARNINGS AND PRECAUTIONS reflects exposure to KISQALI in 1065 patients with advanced or metastatic breast cancer (MONALEESA-2, MONALEESA-3, MONALEESA-7), of whom 76% were exposed for 6 months or longer, and 62% were exposed for greater than one year. The most common (\geq 20%) adverse reactions, including laboratory abnormalities, were leukocytes decreased (95%), neutrophils decreased (93%), hemoglobin decreased (68%), lymphocytes decreased (66%), aspartate aminotransferase increased (55%), gamma-glutamyl transferase increased (53%), alanine aminotransferase increased (52%), infections (47%), nausea (47%), creatinine increased (42%), fatigue (35%), platelets decreased (34%), diarrhea (33%), vomiting (29%), headache (27%), constipation (25%), alopecia (25%), cough (24%), rash (24%), back pain (24%), and glucose serum decreased (20%).

NATALEE: KISQALI in Combination with a Non-steroidal Aromatase Inhibitor as Adjuvant Treatment

Adults with HR-positive, HER2-negative Stage II and III Early Breast Cancer at High Risk of Recurrence

The safety of KISQALI was evaluated in NATALEE, a clinical trial of 5101 patients who received KISQALI plus NSAI or NSAI alone, with or without goserelin [see Clinical Studies (14)]. The median duration of exposure to KISQALI was 33 months.

Serious adverse reactions occurred in 14% of patients who received KISQALI. Serious adverse reactions in > 0.5% of patients who received KISQALI included COVID-19 (1.1%), pneumonia (0.8%), and pulmonary embolism (0.6%).

Fatal adverse reactions occurred in 0.6% of patients who received KISQALI. Fatal adverse reactions in \geq 0.1% of patients receiving KISQALI included COVID-19 or COVID-19 pneumonia (0.2%) and pulmonary embolism (0.1%).

Permanent discontinuation of KISQALI due to an adverse reaction occurred in 20% of patients. Adverse reactions which resulted in permanent discontinuation of KISQALI in \geq 2% of patients were alanine aminotransferase or aspartate aminotransferase increased (8%).

Dosage interruptions of both KISQALI plus NSAI due to an adverse reaction occurred in 73% of patients. Adverse reactions which required dosage interruption in \geq 5% of patients included neutropenia or neutrophil count decreased (43%), alanine aminotransferase or aspartate aminotransferase increased (11%), COVID-19 (10%), and hypomagnesemia (5%).

Dose reductions of KISQALI due to an adverse reaction occurred in 23% of patients. Adverse reactions which required dose reductions in \geq 2% of patients included

neutropenia or neutrophil count decreased (14%) and liver function abnormal (2.3%).

The most common (\geq 20% on KISQALI plus NSAI and \geq 2% higher than placebo) adverse reactions, including laboratory abnormalities, were neutropenia, infections, nausea, headache, fatigue, leukopenia, and abnormal liver function tests.

Table 10 summarizes the adverse reactions in NATALEE.

Table 10: Adverse Reactions (\geq 10% and \geq 2% Higher Than NSAI Alone Arm)
in NATALEE

Adverse reaction	KISQALI + NSAI (n = 2526)		NSAI (n = 2441)	
	All Grades (%)	Grade 3 or 4 (%)	All Grades (%)	Grade 3 or 4 (%)
Infections and infe	estations			
Infections ¹	37	2.0	27	0.9
Nervous system d	isorders			
Headache ²	23	0.4	17	0.2
Gastrointestinal di	sorders			
Nausea ²	23	0.2	8	0.1
Diarrhea ²	15	0.6	6	0.1
Constipation ²	13	0.2	5	0
Abdominal pain ²	11	0.5	7	0.4
General disorders	and administr	ation-site condit	ions	
Fatigue ²	22	0.8	13	0.2
Asthenia ²	17	0.6	12	0.1
Pyrexia ²	11	0.2	6	0.1
Skin and subcutan	eous tissue d	isorders		
Alopecia	15	0	4.6	0
Respiratory, thora	cic, and media	astinal disorders		
Cough ²	13	0.1	8	0.1

Grading according to Common Terminology Criteria for Adverse Events (CTCAE) version 4.03.

¹Infections: urinary tract infections; respiratory tract infections.

²Only includes a Grade 3 adverse reaction.

Clinically relevant adverse reactions reported in < 10% of patients who received KISQALI plus NSAI included rash (9%), dizziness (9%), vomiting (8%), peripheral edema (7%), pruritis (7%), dyspnea (7%), stomatitis (6%), oropharyngeal pain (6%), hypocalcemia (5%), hypokalemia (4.8%), decreased appetite (4.8%).

Table 11 summarizes the laboratory abnormalities in NATALEE.

Table 11: Select Laboratory Abnormalities (≥ 10%) in Patients in NATALEE
Who Received KISQALI Plus NSAI

Laboratory	KISQALI + NSAI	NSAI
abnormality	(n = 2526)	(n = 2441)

	All Grades (%)	Grade 3 or 4 (%)	All Grades (%)	Grade 3 or 4 (%)
Hematology				
Lymphocytes decreased	97	19	88	6
Leukocytes decreased	95	27	45	0.6
Neutrophils decreased	94	45	35	1.7
Hemoglobin decreased	47	0.6	26	0.3
Platelets decreased Chemistry Alanine	28	0.4	13	0.3
aminotransferase increased Aspartate	45	8	35	1
aminotransferase increased	44	5	33	1
Creatinine increased	33	0.3	11	0

MONALEESA-2: KISQALI in Combination with Letrozole

Postmenopausal Women with HR-positive, HER2-negative Advanced or Metastatic Breast Cancer for Initial Endocrine-Based Therapy

The safety of KISQALI was evaluated in MONALEESA-2, a clinical trial of 668 postmenopausal women receiving KISQALI plus letrozole or placebo plus letrozole [see Clinical Studies (14)]. The median duration of exposure to KISQALI plus letrozole was 13 months with 58% of patients exposed for \geq 12 months.

Serious adverse reactions occurred in 21% of patients who received KISQALI plus letrozole. Serious adverse reactions in \geq 1 % of patients receiving KISQALI plus letrozole included abdominal pain (1.5%), vomiting (1.5%), constipation (1.2%), nausea (1.2%), anemia (1.2%), febrile neutropenia (1.2%), dyspnea (1.2%), and alanine aminotransferase increased (1.2%).

Fatal adverse reactions occurred in 1.8% of patients who received KISQALI. Fatal adverse reactions in $\geq 0.1\%$ of patients receiving KISQALI included acute respiratory failure (0.6%), acute myocardial infarction, sudden death (with Grade 3 hypokalemia and Grade 2 QT prolongation), unknown cause, and pneumonia (0.3% each). Permanent discontinuation of both KISQALI and letrozole due to an adverse reaction occurred in 7% of patients. Permanent discontinuation of KISQALI alone occurred in 7% of patients. Adverse reactions which resulted in permanent discontinuation of both KISQALI and letrozole in $\geq 2\%$ of patients were alanine aminotransferase increased (5%), aspartate aminotransferase increased (3%), and vomiting (2%).

Dosage interruptions of both KISQALI and letrozole due to an adverse reaction occurred in 71% of patients. Adverse reactions which required dosage interruption in \geq 5% of patients included neutropenia (39%), neutrophils decreased (12%), vomiting (6%), nausea (5%), alanine aminotransferase increased (5%), and leukocytes decreased (5%).

Dose reductions of KISQALI due to an adverse reaction occurred in 45% of patients receiving KISQALI plus letrozole. Adverse reactions which required dose reductions in \geq 2% of patients included neutropenia (24%), neutrophils decreased (8%), and alanine aminotransferase increased (3%).

Antiemetics and antidiarrheal medications were used to manage symptoms as clinically indicated.

The most common (\geq 20% on the KISQALI arm and \geq 2% higher than placebo) adverse reactions, including laboratory abnormalities, were neutrophils decreased, leukocytes decreased, hemoglobin decreased, nausea, lymphocytes decreased, alanine aminotransferase increased, aspartate aminotransferase increased, fatigue, diarrhea, alopecia, vomiting, platelets decreased, constipation, headache, and back pain.

Table 12 summarizes the adverse reactions in MONALEESA-2.

		MUNALEESA-2		
Adverse reaction	-	KISQALI + Letrozole (n = 334)		+ Letrozole = 330)
	All Grades	Grade 3 or 4	All Grades	Grade 3 or 4
	(%)	(%)	(%)	(%)
Gastrointestinal di	isorders			
Nausea ¹	52	2.4	29	0.6
Diarrhea ¹	35	1.2	22	0.9
Vomiting ¹	29	3.6	16	0.9
Constipation ¹	25	1.2	19	0
Stomatitis ¹	12	0.3	7	0
Abdominal pain ¹	11	1.2	8	0
General disorders	and administ	ration-site condit	tions	
Fatigue	37	2.4	30	0.9
Pyrexia ¹	13	0.3	6	0
Peripheral edema ¹	12	0	10	0
Skin and subcutan	eous tissue d	lisorders		
Alopecia ¹	33	0	16	0
Rash ¹	17	0.6	8	0
Pruritus ¹	14	0.6	6	0
Nervous system d	isorders			
Headache ¹	22	0.3	19	0.3
Insomnia ¹	12	0.3	9	0
Musculoskeletal a	nd connective	e tissue disorders	5	
Back pain ¹	20	2.1	18	0.3
Metabolism and nu	utrition disord	lers		
Decreased appetite ¹	19	1.5	15	0.3
Respiratory, thora	cic and media	astinal disorders		
Dyspnea ¹	12	1.2	9	0.6

Table 12: Adverse Reactions (\geq 10% and \geq 2% Higher Than Placebo Arm) in MONALEESA-2

Infections and inf	estations					
Urinary tract infections ¹	11	0.6	8	0		
Grading according to Common Terminology Criteria for Adverse Events (CTCAE) version						
4.03.						
¹ Only includes a Gra	ade 3 adverse rea	iction.				

Clinically relevant adverse reactions in < 10% of patients in MONALEESA-2 receiving KISQALI plus letrozole included interstitial lung disease (0.3%), lung infiltration (0.3%), pneumonitis (0.3%), and pulmonary fibrosis (0.6%). Table 13 summarizes the laboratory abnormalities in MONALEESA-2.

Laboratory abnormality	KISQALI + Letrozole (n = 334)		Placebo + Letrozole (n = 330)	
	All Grades (%)	Grade 3 or 4 (%)	All Grades (%)	Grade 3 or 4 (%)
Hematology				
Leukocytes decreased	93	34	29	1.5
Neutrophils decreased	93	60	24	1.2
Hemoglobin decreased	57	1.8	26	1.2
Lymphocytes decreased	51	14	22	3.9
Platelets decreased	29	0.9	6	0.3
Chemistry Alanine aminotransferase increased	46	10	36	1.2
Aspartate aminotransferase increased	44	7	32	1.5
Creatinine increased	20	0.6	6	0
Phosphorous decreased	13	5	4	0.6
Potassium decreased	11	1.2	7	1.2

Table 13: Select Laboratory Abnormalities (≥ 10%) in Patients in MONALEESA-2 Who Received KISQALI Plus Letrozole

MONALEESA-7: KISQALI in Combination with a Non-Steroidal Aromatase Inhibitor

Pre/perimenopausal Patients with HR-positive, HER2-negative Advanced or Metastatic Breast Cancer for Initial Endocrine-Based Therapy

The safety of KISQALI was evaluated in MONALEESA-7, a clinical trial of 672 pre/perimenopausal patients with HR-positive, HER2-negative advanced or metastatic

breast cancer receiving either KISQALI plus a NSAI or tamoxifen plus goserelin or placebo plus NSAI or tamoxifen plus goserelin [see Clinical Studies (14)]. The median duration of exposure in the KISQALI plus a NSAI arm was 15.2 months with 66% of patients exposed for \geq 12 months. The safety data reported below are based on 495 pre/perimenopausal patients receiving KISQALI plus NSAI plus goserelin or placebo plus NSAI plus goserelin.

Serious adverse reactions occurred in 17% of patients who received KISQALI plus NSAI plus goserelin. Serious adverse reactions in \geq 1% of patients receiving KISQALI plus NSAI plus goserelin included drug-induced liver injury (1.6%), abdominal pain (1.2%), dyspnea (1.2%), febrile neutropenia (1.2%), and back pain (1.2%).

Permanent discontinuation of both KISQALI and NSAI due to an adverse reaction occurred in 3% of patients. Permanent discontinuation of KISQALI alone occurred in 3% of patients. Adverse reactions which resulted in permanent discontinuation of both KISQALI and NSAI in \geq 2% of patients were alanine aminotransferase increased (2%), and aspartate aminotransferase increased (2%).

Dosage interruptions of KISQALI plus NSAI plus goserelin due to an adverse reaction occurred in 73% of patients. Adverse reactions which required dosage interruption in \geq 5% of patients included neutropenia (41%), neutrophils decreased (26%), and leukocytes decreased (6%).

Dose reductions of KISQALI due to an adverse reaction occurred in 33% of patients receiving KISQALI plus NSAI plus goserelin. Adverse reactions which required dose reductions in ≥ 2 % of patients included neutropenia (17%), neutrophils decreased (5%), and alanine aminotransferase increased (2%).

The most common (\geq 20% on the KISQALI arm and \geq 2% higher than placebo) adverse reactions, including laboratory abnormalities, were leukocytes decreased, neutrophils decreased, hemoglobin decreased, lymphocytes decreased, gamma-glutamyl transferase increased, aspartate aminotransferase increased, infections, arthralgia, alanine aminotransferase increased, nausea, platelets decreased, and alopecia.

Table 14 summarizes the adverse reactions in MONALEESA-7.

Adverse reaction	KISQALI + NSAI + Goserelin (n = 248)		Placebo + NSAI + Goserelin (n = 247)	
	All Grades (%)	Grade 3 or 4 (%)	All Grades (%)	Grade 3 or 4 (%)
Infections and infe	stations			
Infections ^{1;2}	36	1.6	24	0.4
Musculoskeletal ar	nd connective	tissue disorders	5	
Arthralgia ²	34	0.8	29	1.2
Gastrointestinal di	sorders			
Nausea ²	32	0	20	0
Constipation ²	16	0	12	0
Stomatitis ²	10	0	8	0.4

Table 14: Adverse Reactions Occurring in \geq 10% and \geq 2% Higher Than Placebo Arm in MONALEESA-7 (NSAI) (All Grades)

Skin and subcutane	ous tissue di	isorders		
Alopecia ²	21	0	13	0
Rash ²	17	0.4	9	0
Pruritus ²	11	0	4	0
General disorders a	and administr	ation-Site Condi	itions	
Pyrexia ²	17	0.8	7	0
Pain in extremity ²	10	0	8	1.2
Respiratory, thorac	ic and media	stinal disorders		
Cough ²	15	0	10	0
Abbreviation: NSAI, no	on-steroidal arc	matase inhibitor.		
	∧	' I O .'I'. C .		

Grading according to Common Terminology Criteria for Adverse Events (CTCAE) version 4.03.

¹Infections: urinary tract infections; respiratory tract infections, gastroenteritis, sepsis (< 1%).

²Only includes a Grade 3 adverse reactions.

Clinically relevant adverse reactions in < 10% of patients in MONALEESA-7 receiving KISQALI plus NSAI included thrombocytopenia (9%), dry skin (9%), oropharyngeal pain (7%), dyspepsia (5%), lacrimation increased (4%), dry eye (4%), vitiligo (3%), hypocalcemia, (2%), blood bilirubin increased (1%), syncope (0.4%), and pneumonitis (0.4%).

Laboratory abnormality	KISQALI + NSAI + Goserelin (n = 248)		Placebo + NSAI + Goserelin (n = 247)	
	All Grades (%)	Grade 3 or 4 (%)	All Grades (%)	Grade 3 or 4 (%)
Hematology				
Leukocytes decreased	93	36	30	0.8
Neutrophils decreased	92	63	27	2.4
Hemoglobin decreased	84	2.4	51	0.4
Lymphocytes decreased	55	14	18	2.8
Platelets decreased	26	0.4	9	0.4
Chemistry				
Gamma-glutamyl transferase increased	42	7	42	9
Aspartate aminotransferase increased Alanine	37	4.8	35	1.6

Table 15: Select Laboratory Abnormalities (≥ 10%) in Patients in MONALEESA-7 Who Received KISQALI Plus NSAI Plus Goserelin

aminotransferase increased	33	6	31	1.6
Phosphorous decreased	14	1.6	11	0.8
Potassium decreased	11	1.2	14	1.2
Glucose serum decreased	10	0.4	10	0.4
Creatinine increased	8	0	2	0

MONALEESA-3: KISQALI in Combination with Fulvestrant

Postmenopausal Patients with HR-positive, HER2-negative Advanced or Metastatic Breast Cancer for Initial Endocrine-Based Therapy or After Disease Progression on Endocrine Therapy

The safety of KISQALI was evaluated in MONALEESA-3, a clinical trial of 724 postmenopausal women receiving KISQALI plus fulvestrant or placebo plus fulvestrant [see Clinical Studies (14)]. The median duration of exposure to KISQALI plus fulvestrant was 15.8 months with 58% of patients exposed for \geq 12 months.

Serious adverse reactions occurred in 29% of patients who received KISQALI plus fulvestrant. Serious adverse reactions in \geq 1% of patients receiving KISQALI plus fulvestrant included pneumonia (1.9%), nausea (1.4%), vomiting (1.4%), anemia (1.2%), dyspnea (1.2%), neutropenia (1.2%). One case (0.2%) of fatal adverse reaction (pneumonia) occurred in patients who received KISQALI plus fulvestrant.

Fatal adverse reactions occurred in 1.2% of patients who received KISQALI. Fatal adverse reactions in $\geq 0.1\%$ of patients receiving KISQALI included cardiac failure, ventricular arrhythmia, pneumonia, acute respiratory distress, pulmonary embolism, and hemorrhagic shock (0.2% each). Permanent discontinuation of both KISQALI and fulvestrant due to an adverse reaction occurred in 8% of patients. Permanent discontinuation of KISQALI alone occurred in 9% of patients. Adverse reactions which resulted in permanent discontinuation of both KISQALI and fulvestrant in $\geq 2\%$ of patients were alanine aminotransferase increased (5%), and aspartate aminotransferase increased (3%).

Dosage interruptions of KISQALI plus fulvestrant due to an adverse reaction occurred in 72% of patients. Adverse reactions which required dosage interruption in \geq 5% of patients included neutropenia (40%), neutrophils decreased (13%), alanine aminotransferase increased (8%), aspartate aminotransferase increased (8%), and leukocytes decreased (5%).

Dose reductions of KISQALI due to an adverse reaction occurred in 32% of patients receiving KISQALI plus fulvestrant. Adverse reactions which required dose reductions in $\geq 2\%$ of patients included neutropenia (15%), and neutrophils decreased (3%).

The most common (\geq 20% on the KISQALI arm and \geq 2% higher than placebo) adverse reactions, including laboratory abnormalities, were leukocytes decreased, neutrophils decreased, lymphocytes decreased, creatinine increased, hemoglobin decreased, gamma-glutamyl transferase increased, aspartate aminotransferase increased, nausea, alanine aminotransferase increased, infections, platelets decreased, diarrhea, vomiting, constipation, glucose serum decreased, cough, rash, and pruritus. Table 16 summarizes the adverse reactions in MONALEESA-3.

KISQALI + Fulvestrant (n = 483)		Placebo + Fulvestrant (n = 241)	
All Grades	Grade 3 or 4	All Grades	Grade 3 or 4
(%)	(%)	(%)	(%)
sorders			
45	1.4	28	0.8
29	0.6	20	0.8
27	1.4	13	0
25	0.8	12	0
17	1.4	13	0.8
stations			
42	4.6	30	1.7
eous tissue d	isorders		
23	0.8	8	0
20	0.2	7	0
19	0	5	0
cic and media	stinal disorders		
22	0	15	0
15	1.4	12	1.7
trition disord	ers		
16	0.2	13	0
and administr	ation-site condit	ions	
			0
_	-		0
	0.2	,	č
13	0.2	8	0
	(n = All Grades (%) sorders 45 29 27 25 17 stations 42 cous tissue d 23 20 19 cic and media 22 15 trition disord 16 and administr 15 11 sorders	(n = 483) All Grades (%) Grade 3 or 4 (%) Sorders (%) 45 1.4 29 0.6 27 1.4 25 0.8 17 1.4 stations 42 42 4.6 eous tissue disorders 23 0.8 20 0.2 19 0 cic and mediastinal disorders 22 0 15 1.4 trition disorders 16 0.2 and administration-site condit 15 0 11 0.2	(n = 483)(n =All Grades (%)Grade 3 or 4 (%)All Grades (%)corders(%)(%)451.428290.620271.413250.812171.413stations424.630cous tissue disorders230.88200.271905cic and mediastinal disorders22015151.412trition disorders160.213and administration-site conditions1501507110.2110.2713

Table 16: Adverse Reactions (\geq 10% and \geq 2% Higher Than Placebo Arm) in MONALEESA-3

Grading according to Common Terminology Criteria for Adverse Events (CTCAE) version 4.03.

¹Infections: urinary tract infections; respiratory tract infections; gastroenteritis; sepsis (1%).

²Only include Grade 3 adverse reactions.

³Includes the following fatal adverse reactions: pneumonia (n = 1).

Clinically relevant adverse reactions in < 10% of patients in MONALEESA-3 receiving KISQALI plus fulvestrant included thrombocytopenia (9%) dry skin (8%), dysgeusia (7%), dry mouth (5%), vertigo (5%), dry eye (5%), lacrimation increased (4%), erythema (4%), hypocalcemia (4%), blood bilirubin increased (1%), syncope (1%), interstitial lung disease (0.4%), pneumonitis (0.4%), hypersensitivity pneumonitis (0.2%), and acute respiratory distress syndrome (0.2%).

Table 17: Select Laboratory Abnormalities (≥ 10%) in Patients in MONALEESA-

Laboratory abnormality	KISQALI + Fulvestrant (n = 483)		Placebo + Fulvestrant (n = 241)	
-	All Grades (%)	Grade 3 or 4 (%)	All Grades (%)	Grade 3 or 4 (%)
Hematology				
Leukocytes decreased	95	26	26	0.4
Neutrophils decreased	92	53	21	0.8
Lymphocytes decreased	69	16	35	4.1
Hemoglobin decreased	60	4.3	35	2.9
Platelets decreased	33	1.9	11	0
Chemistry				
Creatinine increased	65	1	33	0.4
Gamma-glutamyl				
transferase increased	52	8	49	10
Aspartate aminotransferase increased	50	7	43	2.9
Alanine aminotransferase increased	44	11	37	1.7
Glucose serum decreased	23	0	18	0
Phosphorous decreased	18	4.6	8	0.8
Albumin decreased	12	0	8	0

3 Who Received KISQALI Plus Fulvestrant

COMPLEEMENT-1: KISQALI in Combination with Letrozole and Goserelin or Leuprolide

Men with HR-positive, HER2-negative Advanced Breast Cancer for Initial Endocrine-Based Therapy

The safety of KISQALI in combination with letrozole was evaluated in men (n = 39) in an open-label, multicenter clinical trial for the treatment of adult patients with HR-positive, HER2-negative, advanced breast cancer who received no prior hormonal therapy for advanced disease (COMPLEEMENT-1) [see Clinical Studies (14)].

The median duration of exposure to KISQALI was 20.8 months (range, 0.5 to 30.6 months).

Other adverse reactions occurring in men treated with KISQALI plus letrozole and goserelin or leuprolide were similar to those occurring in women treated with KISQALI plus endocrine therapy.

6.2 Postmarketing Experience

The following adverse events have been reported during post-approval use of KISQALI. Because these events 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.

Respiratory disorders: Interstitial lung disease/pneumonitis

Skin and Subcutaneous Tissue Disorders: Stevens-Johnson syndrome (SJS), toxic epidermal necrolysis (TEN), drug-induced hypersensitivity syndrome (DiHS)/drug reaction with eosinophilia, and systemic symptoms (DRESS)

7 DRUG INTERACTIONS

7.1 Drugs That May Increase Ribociclib Plasma Concentrations

CYP3A4 Inhibitors

Coadministration of strong CYP3A inhibitors increases ribociclib exposure [see Clinical Pharmacology (12.3)]. Increased ribociclib concentrations may increase the incidence and severity of adverse reactions, including QTcF prolongation [see Warnings and Precautions (5.3)]. Avoid concomitant use of strong CYP3A inhibitors with KISQALI and consider alternative concomitant medications with less potential for CYP3A inhibition.

In patients with early breast cancer, if coadministration of KISQALI with a strong CYP3A inhibitor cannot be avoided, reduce the dose of KISQALI to 200 mg once daily. In patients with advanced or metastatic breast cancer, if coadministration of KISQALI with a strong CYP3A inhibitor cannot be avoided, reduce the dose of KISQALI to 400 mg once daily [see Dosage and Administration (2.2)].

7.2 Drugs That May Decrease Ribociclib Plasma Concentrations

CYP3A Inducers

Coadministration of strong CYP3A inducers decreases the plasma exposure of ribociclib *[see Clinical Pharmacology (12.3)]*. Avoid concomitant use of strong CYP3A inducers and consider an alternate concomitant medication with no or minimal potential to induce CYP3A.

7.3 Effect of KISQALI on Other Drugs

CYP3A Substrates

Coadministration of sensitive CYP3A4 substrates with multiple doses of KISQALI increases the substrate exposure [see Clinical Pharmacology (12.3)]. For CYP3A substrates where minimal increases in the concentration may increase CYP3A substrate adverse reactions, monitor for increased adverse reactions of the CYP3A substrate during treatment with KISQALI. The dose of the sensitive CYP3A substrate may need to be reduced as KISQALI can increase its exposure.

7.4 Drugs That Prolong the QT Interval

Avoid coadministration of KISQALI with products with a known potential to prolong QT

interval, such as antiarrhythmic drugs and other drugs that are known to prolong the QT interval. If concomitant use cannot be avoided, monitor ECG when initiating, during concomitant use, and as clinically indicated [see Warnings and Precautions (5.3), Clinical Pharmacology (12.2)].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

<u>Risk Summary</u>

Based on findings from animal studies and the mechanism of action, KISQALI can cause fetal harm when administered to a pregnant woman [see Clinical Pharmacology (12.1)].

There are no available human data informing the drug-associated risk. In animal reproduction studies, administration of ribociclib to pregnant animals during organogenesis resulted in increased incidences of post implantation loss and reduced fetal weights in rats and increased incidences of fetal abnormalities in rabbits at exposures 0.6 or 1.5 times the exposure in humans, respectively, at the highest recommended dose of 600 mg/day based on AUC (see Data). Advise pregnant women of the potential risk to a fetus.

The background risk of major birth defects and miscarriage for the indicated population is unknown. However, the background risk of major birth defects is 2%-4% and of miscarriage is 15%-20% of clinically recognized pregnancies in the U.S. general population.

<u>Data</u>

Animal Data

In embryo-fetal development studies in rats and rabbits, pregnant animals received oral doses of ribociclib up to 1000 mg/kg/day and 60 mg/kg/day, respectively, during the period of organogenesis.

In rats, 300 mg/kg/day resulted in reduced maternal body weight gain and reduced fetal weights accompanied by skeletal changes related to the lower fetal weights. There were no significant effects on embryo-fetal viability or fetal morphology at 50 or 300 mg/kg/day.

In rabbits at doses \geq 30 mg/kg/day, there were adverse effects on embryo-fetal development, including increased incidences of fetal abnormalities (malformations and external, visceral, and skeletal variants) and fetal growth (lower fetal weights). These findings included reduced/small lung lobes, additional vessel on the descending aorta, additional vessel on the aortic arch, small eyes, diaphragmatic hernia, absent accessory lobe or (partly) fused lung lobes, reduced/small accessory lung lobe, extra/rudimentary 13th ribs, misshapen hyoid bone, bent hyoid bone alae, and reduced number of phalanges in the pollex. There was no evidence of increased incidence of embryo-fetal mortality. There was no maternal toxicity observed at 30 mg/kg/day.

At 300 mg/kg/day in rats and 30 mg/kg/day in rabbits, the maternal systemic exposures (AUC) were approximately 0.6 and 1.5 times, respectively, the exposure in patients at the highest recommended dose of 600 mg/day.

8.2 Lactation

<u>Risk Summary</u>

It is not known if ribociclib is present in human milk. There are no data on the effects of ribociclib on the breastfed infant or on milk production. Ribociclib and its metabolites readily passed into the milk of lactating rats. Because of the potential for serious adverse reactions in breastfed infants from KISQALI, advise lactating women not to breastfeed while taking KISQALI and for at least 3 weeks after the last dose.

<u>Data</u>

In lactating rats administered a single dose of 50 mg/kg, exposure to ribociclib was 3.56-fold higher in milk compared to maternal plasma.

8.3 Females and Males of Reproductive Potential

Based on animal studies and mechanism of action, KISQALI can cause fetal harm when administered to a pregnant woman [see Use in Specific Populations (8.1)].

Pregnancy Testing

Verify pregnancy status in females of reproductive potential prior to starting treatment with KISQALI.

Contraception

Females

Advise females of reproductive potential to use effective contraception (methods that result in less than 1% pregnancy rates) during treatment with KISQALI and for at least 3 weeks after the last dose.

Infertility

Males

Based on animal studies, KISQALI may impair fertility in males of reproductive potential [see Nonclinical Toxicology (13.1)].

8.4 Pediatric Use

The safety and efficacy of KISQALI in pediatric patients has not been established.

8.5 Geriatric Use

Of the 2549 adults with early breast cancer who received KISQALI in NATALEE, 407 patients (16%) were \geq 65 years of age and 123 patients (2.4%) were \geq 75 years of age. No overall differences in safety or effectiveness of KISQALI were observed between older and younger adults with early breast cancer.

Of 334 patients with advanced or metastatic breast cancer who received KISQALI in MONALEESA-2, 150 patients (45%) were \geq 65 years of age and 35 patients (11%) were \geq 75 years of age. Of 484 patients with advanced or metastatic breast cancer who received KISQALI in MONALEESA-3, 226 patients (47%) were \geq 65 years of age and 65 patients (14%) were \geq 75 years of age. Of 248 patients with advanced or metastatic breast cancer who received KISQALI in MONALEESA-7, no patients were \geq 65 years of age. No overall differences in safety or effectiveness of KISQALI were observed between older and younger adults with advanced or metastatic breast cancer.

8.6 Hepatic Impairment

No dose adjustment is necessary in patients with breast cancer who have mild hepatic impairment (Child-Pugh class A) [see Clinical Pharmacology (12.3)]. A reduced starting dose of 400 mg is recommended in patients with advanced or metastatic breast cancer who have moderate (Child-Pugh class B) and severe hepatic impairment (Child-Pugh class C) [see Dosage and Administration (2.2)].

8.7 Renal Impairment

No dose adjustment is necessary in patients with breast cancer who have mild to moderate (30 mL/min to 89 mL/min/1.73 m² \leq estimated glomerular filtration rate (eGFR)) renal impairment. A reduced starting dose of 200 mg is recommended in patients with breast cancer who have severe renal impairment [see Dosage and Administration (2.2), Clinical Pharmacology (12.3)].

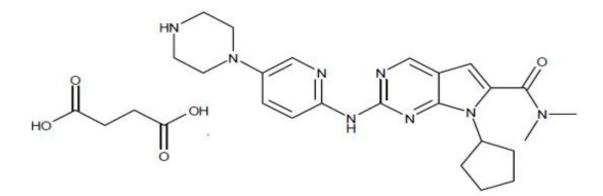
11 DESCRIPTION

KISQALI (ribociclib) is a kinase inhibitor.

The chemical name of ribociclib succinate is: Butanedioic acid—7-cyclopentyl-*N*,*N*-dimethyl-2-{[5-(piperazin-1-yl) pyridin-2-yl]amino}-7*H*-pyrrolo[2,3-*d*]pyrimidine-6-carboxamide (1/1).

Ribociclib succinate is a light yellow to yellowish brown crystalline powder. The molecular formula for ribociclib succinate is $C_{23}H_{30}N_8O\cdot C_4H_6O_4$ and the molecular weight is 552.64 g/mol (*Free base: 434.55 g/mol*).

The chemical structure of ribociclib is shown below:



KISQALI film-coated tablets are supplied for oral use and contain 200 mg of ribociclib free base (equivalent to 254.40 mg ribociclib succinate). The tablets also contain colloidal silicon dioxide, crospovidone, hydroxypropylcellulose, magnesium stearate and microcrystalline cellulose. The film-coating contains iron oxide black, iron oxide red, lecithin (soya), polyvinyl alcohol (partially hydrolysed), talc, titanium dioxide, and xanthan gum as inactive ingredients.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Ribociclib is an inhibitor of cyclin-dependent kinase (CDK) 4 and 6. These kinases are activated upon binding to D-cyclins and are downstream of signaling pathways which lead to cell cycle progression and cellular proliferation. The cyclin D-CDK4/6 complex regulates cell cycle progression through phosphorylation of the retinoblastoma protein (pRb).

In vitro, ribociclib decreased pRb phosphorylation, resulting in arrest in the G1 phase of the cell cycle and reduced proliferation in breast cancer-derived models. *In vivo*, treatment with single agent ribociclib in a rat xenograft model with human tumor cells led to decreased tumor volumes, which correlated with inhibition of pRb phosphorylation. In studies using patient-derived estrogen receptor positive breast cancer xenograft models, combination of ribociclib and antiestrogen (e.g., letrozole) therapies resulted in increased tumor growth inhibition compared to each drug alone. Additionally, the combination of ribociclib and fulvestrant resulted in tumor growth inhibition in an estrogen receptor positive breast cancer.

12.2 Pharmacodynamics

The exposure-response relationship and time course of pharmacodynamic response for the safety and effectiveness of KISQALI have not been fully characterized in patients.

Cardiac Electrophysiology

A concentration-QT analysis of the data in patients with breast cancer treated with KISQALI at doses ranging from 50 to 1200 mg (0.083 to 2 times of the approved recommended high dose) suggested that ribociclib causes concentration-dependent increases in QTcF interval *[see Warnings and Precautions (5.3, 5.4)]*.

In patients with early breast cancer, the estimated mean QTcF interval change from baseline for the KISQALI 400 mg in combination with non-steroidal aromatase inhibitor (NSAI) was 10.0 ms (90% CI: 8.0, 11.9) at the mean steady-state C_{max} [see Warnings and Precautions (5.3, 5.4)].

In patients with advanced or metastatic breast cancer the estimated mean QTcF interval change from baseline for the KISQALI 600 mg in combination with aromatase inhibitors or fulvestrant was 22.0 ms (90% CI: 20.6, 23.4) and 23.7 ms (90% CI: 22.3, 25.1), respectively, and was 34.7 ms (90% CI: 31.6, 37.8) in combination with tamoxifen at the mean steady-state C_{max} [see Warnings and Precautions (5.3, 5.4)].

12.3 Pharmacokinetics

Ribociclib exhibited over-proportional increases in exposure (C_{max} and AUC) across the dose range of 50 mg to 1200 mg (0.083 to 2 times of the approved recommended high dose) following both single dose and repeated doses of KISQALI. Following repeated 600 mg once daily administration, steady-state was generally achieved after 8 days and ribociclib accumulated with a mean accumulation ratio of 2.5 (range, 0.97 to 6.4), and mean (coefficient of variation (CV%)) steady-state ribociclib C_{max} was 1820 (62%) ng/mL and AUC was 23800 (66%) ng*h/mL.

<u>Absorption</u>

The T_{max} following KISQALI administration was between 1 and 4 hours. The mean

absolute bioavailability of ribociclib after a single oral dose of 600 mg was 65.8%.

Food Effect: Compared to the fasted state, oral administration of a single 600 mg dose of KISQALI tablet with a high-fat, high-calorie meal (approximately 800 to 1000 calories with ~50% calories from fat, ~35% calories from carbohydrates, and ~15% calories from protein) had no clinically meaningful differences in ribociclib C_{max} or AUC_{inf}.

Distribution

Ribociclib protein binding *in vitro* was approximately 70% and independent of concentration (10 to 10,000 ng/mL). The mean *in vivo* blood-to-plasma ratio was 1.04. The apparent volume of distribution at steady-state (Vss/F) was 1090 L.

<u>Metabolis m</u>

Ribociclib undergoes extensive hepatic metabolism mainly via CYP3A4 in humans. Following oral administration of a single 600 mg dose of radio-labeled ribociclib to humans, the primary metabolic pathways for ribociclib involved oxidation (dealkylation, C and/or N-oxygenation, oxidation (-2H)) and combinations thereof. Ribociclib was the major circulating drug-derived entity in plasma (44%). The major circulating metabolites included metabolite M13 (CCI284, N-hydroxylation), M4 (LEQ803, N-demethylation), and M1 (secondary glucuronide), each representing an estimated 9%, 9%, and 8% of total radioactivity, and 22%, 20%, and 18% of ribociclib exposure. Clinical activity of ribociclib was due primarily to parent drug, with negligible contribution from circulating metabolites.

Ribociclib was extensively metabolized with unchanged drug accounting for 17% and 12% in feces and urine, respectively. Metabolite LEQ803 represented approximately 14% and 4% of the administered dose in feces and urine, respectively.

Elimination

The mean plasma effective half-life (CV%) was 32.0 hours (63%) and the mean apparent oral clearance (CL/F) was 25.5 L/hr (66%) at steady-state following 600 mg dose of KISQALI in patients with advanced cancer. The steady state mean CL/F was 38.4 L/hr following the 400 mg dose of KISQALI in patients with early breast cancer.

The mean apparent plasma terminal half-life of ribociclib ranged from 29.7 to 54.7 hours and mean CL/F of ribociclib ranged from 39.9 to 77.5 L/hr at 600 mg across studies in healthy adults.

Following a single oral dose of radio-labeled ribociclib in healthy adults, 92% of the total administered radioactive dose was recovered within 22 days; 69% in feces and 23% in urine.

Specific Populations

Patients with Hepatic Impairment

Compared to adults with normal hepatic function, mild (Child-Pugh class A) hepatic impairment had no effect on the exposure of ribociclib; while in adults with moderate (Child-Pugh class B) hepatic impairment, the mean ratio was 1.44 for C_{max} and 1.28 for AUC_{inf}; and in adults with severe (Child-Pugh class C) hepatic impairment, the mean ratio was 1.32 for C_{max} and 1.29 for AUC_{inf}.

Patients with Renal Impairment

In adults with severe renal impairment and ESRD, ribociclib AUC_{inf} increased 2.4-fold and 3.8-fold, and C_{max} increased 2.1-fold and 2.7-fold relative to the exposure in adults with normal renal function.

Mild or moderate renal impairment had no effect on the exposure of ribociclib. A subgroup analysis of data from studies following oral administration of KISQALI in patients with advanced cancer or early breast cancer who have mild to moderate renal impairment, AUC and C_{max} were comparable to those in patients with normal renal function, suggesting no clinically meaningful effect of mild or moderate renal impairment on ribociclib exposure.

Effect of Age, Weight, Gender, and Race

No clinically relevant effects of age, body weight, gender, or race on the systemic exposure of ribociclib were identified.

Drug Interaction Studies

Clinical Studies and Model-Informed Approaches

Drugs That Affect Ribociclib Plasma Concentrations

CYP3A Inhibitors: Following a single 400 mg dose of KISQALI with ritonavir (a strong CYP3A inhibitor), ritonavir (100 mg twice a day for 14 days) increased ribociclib C_{max} and AUC_{inf} by 1.7-fold and 3.2-fold, respectively, compared to ribociclib alone. C_{max} and AUC for LEQ803 (a prominent metabolite of ribociclib, accounting for less than 10% of parent exposure) decreased by 96% and 98%, respectively. A moderate CYP3A4 inhibitor (erythromycin) is predicted to increase ribociclib steady-state C_{max} and AUC by 1.1-fold and 1.2-fold, respectively, following KISQALI 400 mg once daily, and 1.1-fold and 1.1-fold.

CYP3A Inducers: Following a single 600 mg dose of KISQALI with rifampicin (a strong CYP3A4 inducer) at 600 mg daily for 14 days, ribociclib C_{max} decreased by 81% and AUC_{inf} decreased by 89%, while LEQ803 C_{max} increased 1.7-fold and AUC_{inf} decreased by 27% compared to ribociclib alone. A moderate CYP3A inducer (efavirenz) is predicted to decrease ribociclib steady-state C_{max} by 55% and AUC by 74%, following KISQALI 400 mg once daily, and by 52% and 71%, respectively, following KISQALI 600 mg once daily.

Drugs That are Affected by KISQALI

CYP3A4 and CYP1A2 Substrates: In a cocktail study with midazolam (sensitive CYP3A4 substrate) multiple doses of ribociclib (400 mg once daily for 8 days) increased midazolam C_{max} by 2.1-fold and increased AUC_{inf} by 3.8-fold compared to midazolam alone. Administration of KISQALI 600 mg once daily is predicted to increase midazolam C_{max} and AUC by 2.4-fold and 5.2-fold, respectively. The effect of multiple doses of 400 mg ribociclib on caffeine (sensitive CYP1A2 substrate) was minimal, with C_{max} decreased by 10% and AUC_{inf} increased by 20%. Only weak inhibitory effects on CYP1A2 substrates are predicted at KISQALI 600 mg once daily dose.

Gastric pH-Elevating Agents: Coadministration of ribociclib with drugs that elevate the gastric pH is not predicted to alter ribociclib absorption.

Letrozole: Data from a clinical trial in patients with breast cancer indicated no drug interaction between ribociclib and letrozole following coadministration of the drugs.

Anastrozole: Data from a clinical trial in patients with breast cancer indicated no clinically relevant drug interaction between ribociclib and anastrozole following coadministration of the drugs.

Exemestane: Data from a clinical trial in patients with breast cancer indicated no clinically relevant drug interaction between ribociclib and exemestane following coadministration of the drugs.

Fulvestrant: Data from a clinical trial in patients with breast cancer indicated no clinically relevant effect of fulvestrant on ribociclib exposure following coadministration of the drugs.

Tamoxifen: KISQALI is not indicated for concomitant use with tamoxifen. Data from a clinical trial in patients with breast cancer indicated that tamoxifen C_{max} and AUC increased approximately 2-fold following coadministration of KISQALI 600 mg.

In vitro Studies

Effect of Ribociclib on CYP Enzymes: In vitro, ribociclib was a reversible inhibitor of CYP1A2, CYP2E1 and CYP3A4/5 and a time-dependent inhibitor of CYP3A4/5, at clinically relevant concentrations. *In vitro* evaluations indicated that ribociclib has no potential to inhibit the activities of CYP2A6, CYP2B6, CYP2C8, CYP2C9, CYP2C19, and CYP2D6 at clinically relevant concentrations. It has no potential for time-dependent inhibition of CYP1A2, CYP2C9, and CYP2D6, and no induction of CYP1A2, CYP2B6, CYP2C9, and CYP2D6, and no induction of CYP1A2, CYP2B6, CYP2C9, and CYP2D6, and no induction of CYP1A2, CYP2B6, CYP2C9, and CYP3A4 at clinically relevant concentrations.

Effect of Ribociclib on Transporters: In vitro evaluations indicated that ribociclib has a low potential to inhibit the activities of drug transporters P-gp, OATP1B1/B3, OCT1, MATEK2 at clinically relevant concentrations. Ribociclib may inhibit BCRP, OCT2, MATE1, and human BSEP at clinically relevant concentrations.

Effect of Transporters on Ribociclib: Based on *in vitro* data, P-gp and BCRP mediated transport are unlikely to affect the extent of oral absorption of ribociclib at therapeutic doses. Ribociclib is not a substrate for hepatic uptake transporters OATP1B1/1B3 or OCT1 *in vitro*.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

In a 2-year carcinogenicity study with oral administration of ribociclib daily in cycles of 3 weeks on/1 week off, ribociclib was not carcinogenic at doses up to 50 mg/kg in male rats and 600 mg/kg in female rats. Systemic exposure in male and female rats were 1.3 and 1.8 times, respectively, the human exposure at the highest recommended dose of 600 mg/day based on AUC.

Ribociclib was not mutagenic in an *in vitro* bacterial reverse mutation (Ames) assay or clastogenic in an *in vitro* human lymphocyte chromosomal aberration assay or an *in vivo* rat bone marrow micronucleus assay.

In a fertility and early embryonic development study, female rats received oral doses of ribociclib for 14 days prior to mating through the first week of pregnancy. Ribociclib did not affect reproductive function, fertility or early embryonic development at doses up to 300 mg/kg/day (approximately 0.6 times the clinical exposure in patients at the highest

recommended dose of 600 mg/day based on AUC).

A fertility study in male rats has not been performed with ribociclib. In repeat-dose toxicity studies with oral administration of ribociclib daily for 3 weeks on/1 week off in rats up to 26 weeks duration and dogs up to 39 weeks duration, atrophic changes in testes were reported. Findings included degeneration of seminiferous tubular epithelia in the testes and hypospermia and luminal cellular debris in the epididymides of rats and dogs and vacuolation of epithelia in the epididymides of rats. These findings were observed at doses \geq 75 mg/kg in rats and \geq 1 mg/kg in dogs which resulted in systemic exposures that were 1.4 and 0.03 times the human exposure at the highest recommended daily dose of 600 mg/day based on AUC, respectively. These effects can be linked to a direct anti-proliferative effect on the testicular germ cells resulting in atrophy of the seminiferous tubules and showed a trend towards reversibility in rats and dogs after a four-week non-dosing period.

13.2 Animal Toxicology and/or Pharmacology

In vivo cardiac safety studies in dogs demonstrated dose and concentration related QTc interval prolongation at an exposure similar to patients receiving the recommended dose of 600 mg. There is a potential to induce incidences of premature ventricular contractions (PVCs) at elevated exposures (approximately 5-fold the anticipated clinical C_{max}).

14 CLINICAL STUDIES

14.1 Early Breast Cancer

NATALEE: KISQALI in Combination with a Non-steroidal Aromatase Inhibitor (NSAI) with or without Goserelin

Adults with HR-positive, HER2-negative Stage II and III Early Breast Cancer at High Risk of Recurrence

NATALEE (NCT03701334) was a randomized (1:1), open-label, multicenter study in adults (N=5101) with HR-positive, HER2-negative early breast cancer that was:

- Anatomic Stage Group IIB-III, or
- Anatomic Stage Group IIA that is either:
 - Node positive or
 - Node negative, with:
 - Histologic grade 3, or
 - Histologic grade 2, with any of the following criteria:
 - Ki67 ≥ 20%
 - High risk by gene signature testing

Applying TNM criteria, NATALEE included patients with any lymph node involvement (excluding microscopic nodal involvement), or if no nodal involvement either tumor size > 5 cm, or tumor size 2 to 5 cm with either Grade 2 (and high genomic risk or Ki67 \geq 20%) or Grade 3.

Participants were randomized to receive KISQALI 400 mg plus a non-steroidal aromatase inhibitor (NSAI, letrozole or anastrozole) or NSAI only, and goserelin as indicated. Randomization was stratified by Anatomic Stage, prior treatment (neoadjuvant versus adjuvant chemotherapy), menopausal status (premenopausal and males versus postmenopausal) and region (North America/Western Europe/Oceania versus rest of the world).

The main efficacy outcome measure was invasive disease-free survival (iDFS). iDFS was defined as the time from randomization to the first occurrence of: local invasive breast recurrence, regional invasive recurrence, distant recurrence, death (any cause), contralateral invasive breast cancer, or second primary non-breast invasive cancer (excluding basal and squamous cell carcinomas of the skin). Overall survival (OS) was an additional outcome measure.

KISQALI was given orally at a dose of 400 mg once daily for 21 consecutive days followed by 7 days off treatment in combination with letrozole 2.5 mg or anastrozole 1 mg orally once daily for 28 days; goserelin 3.6 mg was administered on Day 1 of each 28-day cycle. KISQALI was administered for up to 36 months in the absence of recurrence or unacceptable toxicity. NSAI was administered for at least 5 years.

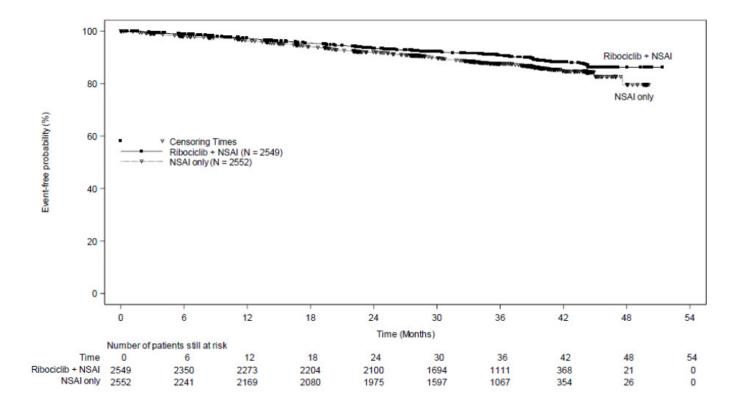
The median age was 52 years (range, 24 to 90); >99% women (n=19 men); 73% White, 13% Asian, 1.7% Black or African American, <0.1% Native Hawaiian or other Pacific Islander, <0.1% American Indian or Alaskan Native; 8.5% Hispanic or Latino; 99% ECOG 0-1; 88% node positive disease; 88% received prior (neo)adjuvant chemotherapy.

A statistically significant improvement in iDFS was observed in the intent-to-treat (ITT) population at an interim analysis. The efficacy results at the time of the final iDFS analysis are summarized in Table 18 and Figure 1. At the time of the iDFS final analysis, OS was immature, and a total of 172 (3.5%) of patients had died across both study arms.

	KISQALI + NSAI +/- Goserelin	NSAI +/- Goserelin	
Invasive Disease- Free Survival (iDFS) ^a	N = 2549	N = 2552	
Events (n, %)	226 (8.9)	283 (11.1)	
Hazard ratio (95% CI)	0.749 (0.628, 0.892)		
iDFS at 36 months (%, 95% Cl)	90.7 (89.3, 91.8)	87.6 (86.1, 88.9)	
Abbreviations: CI, confidence interval; iDFS, invasive disease-free survival. ^a iDFS was statistically significant at an interim analysis based on a one-sided stratified log-rank p-value of 0.0014.			

Table 18: Efficacy Results - NATALEE (Investigator Assessment, Intent-to-Treat Population)

Figure 1: Kaplan-Meier Plot of iDFS - NATALEE (Investigator Assessment, Intent-to-Treat Population)



14.2 Advanced or Metastatic Breast Cancer

MONALEESA-2: KISQALI in Combination with Letrozole

Postmenopausal Women with HR-positive, HER2-negative Advanced or Metastatic Breast Cancer for Initial Endocrine-Based Therapy

MONALEESA-2 (NCT01958021) was a randomized (1:1), double-blind, placebocontrolled, multicenter clinical study of KISQALI plus letrozole vs. placebo plus letrozole conducted in postmenopausal women (N=668) with HR-positive, HER2-negative, advanced breast cancer who received no prior therapy for advanced disease.

Participants were randomized to receive either KISQALI plus letrozole or placebo plus letrozole, stratified according to the presence of liver and/or lung metastases. Letrozole 2.5 mg was given orally once daily for 28 days, with either KISQALI 600 mg or placebo orally once daily for 21 consecutive days followed by 7 days off until disease progression or unacceptable toxicity. The major efficacy outcome measure for the study was investigator-assessed progression-free survival (PFS) using Response Evaluation Criteria in Solid Tumors (RECIST) v1.1.

The median age was 62 years (range, 23 to 91) and 45% of patients were older than 65. The majority of patients were White (82%), and all patients had an ECOG performance status of 0 or 1. A total of 47% of patients had received chemotherapy and 51% had received antihormonal therapy in the neoadjuvant or adjuvant setting. Thirty-four percent (34%) of patients had *de novo* metastatic disease, 21% had bone only disease, and 59% had visceral disease.

The efficacy results are summarized in Table 19, Figure 2 and Figure 3. The PFS assessment based on a blinded independent central radiological review was consistent with investigator assessment. Consistent results were observed across patient subgroups of prior adjuvant or neoadjuvant chemotherapy or hormonal therapies, liver

and/or lung involvement, and bone-only metastatic disease.

Table 19: Efficacy Results - MONALEESA-2 (Investigator Assessment, Intent-
to-Treat Population)

N = 334 93 (27.8) NR (19.3 - NR)	N = 334 150 (44.9)
· /	. ,
NR (193 – NR)	
	14.7 (13.0 – 16.5)
0.556 (0.429, 0.720)	
< 0.0001 ^a	
N = 334	N = 334
181 (54.2)	219 (65.6)
63.9 (52.4, 71.0)	51.4 (47.2, 59.7)
0.765 (0.628, 0.932)	
0.004 ^a	
N = 256	N = 245
52.7 (46.6, 58.9)	37.1 (31.1, 43.2)
	0.556 (0.4 < 0.0 N = 334 181 (54.2) 63.9 (52.4, 71.0) 0.765 (0.6 0.00 N = 256

Abbreviations: CI, confidence interval; NR, not reached.

^ap-value estimated from one-sided log-rank test.

Figure 2: Kaplan-Meier Plot of Progression-Free Survival - MONALEESA-2 (Investigator Assessment, Intent-to-Treat Population)

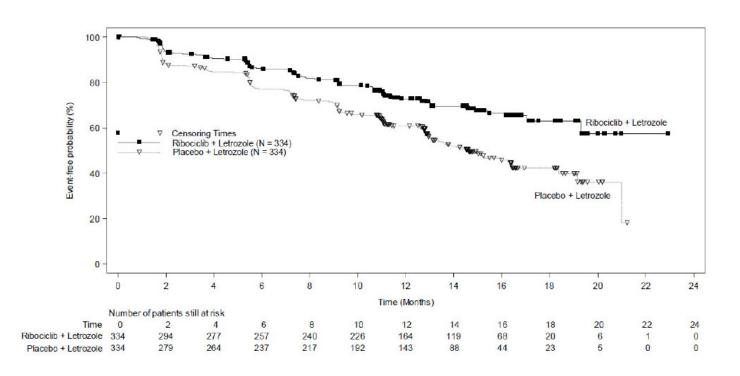
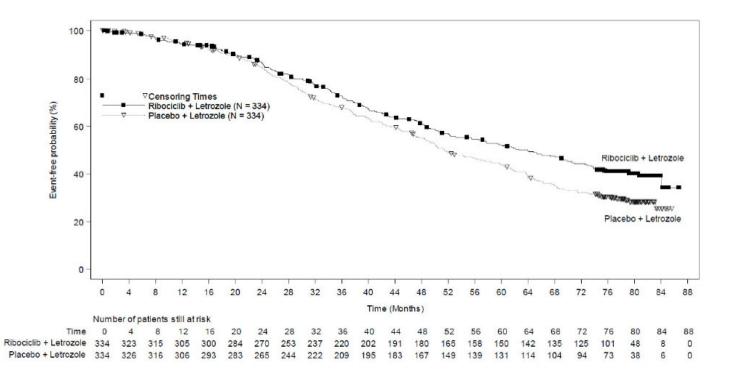


Figure 3: Kaplan-Meier Plot of Overall Survival - MONALEESA-2 (Investigator Assessment, Intent-to-Treat Population)



MONALEESA-7: KISQALI in Combination with a Non-Steroidal Aromatase Inhibitor with or without Goserelin

Pre/perimenopausal Patients with HR-positive, HER2-negative Advanced or Metastatic Breast Cancer for Initial Endocrine-Based Therapy

MONALEESA-7 (NCT02278120) was a randomized (1:1), double-blind, placebo-controlled study of KISQALI plus either a NSAI or tamoxifen and goserelin vs. placebo plus either a NSAI or tamoxifen and goserelin conducted in pre/perimenopausal women (N=672) with HR-positive, HER2-negative, advanced breast cancer who received no prior endocrine therapy for advanced disease.

Participants were randomized to receive KISQALI plus NSAI or tamoxifen plus goserelin or placebo plus NSAI or tamoxifen plus goserelin, stratified according to the presence of liver and/or lung metastases, prior chemotherapy for advanced disease and endocrine combination partner (tamoxifen and goserelin vs. NSAI and goserelin). NSAI (letrozole 2.5 mg or anastrozole 1 mg) or tamoxifen 20 mg were given orally once daily on a continuous daily schedule, goserelin was administered as a sub-cutaneous injection on Day 1 of each 28-day cycle, with either KISQALI 600 mg or placebo orally once daily for 21 consecutive days followed by 7 days off until disease progression or unacceptable toxicity. The major efficacy outcome measure for the study was investigator-assessed progression-free survival (PFS) using Response Evaluation Criteria in Solid Tumors (RECIST) v1.1.

The median age was 44 years (range, 25 to 58). Patients were primarily White (58%), Asian (29%), or Black (3%). Nearly all patients (99%) had an ECOG performance status of 0 or 1. Of the 672 patients, 33% had received chemotherapy in the adjuvant vs. 18% in the neoadjuvant setting and 40% had received endocrine therapy in the adjuvant vs. 0.7% in the neoadjuvant setting prior to study entry. Forty percent (40%) of patients had *de novo* metastatic disease, 24% had bone only disease, and 57% had visceral disease. Demographics and baseline disease characteristics were balanced and comparable between study arms, and endocrine combination partner.

The efficacy results from a pre-specified subgroup analysis of 495 patients who had received KISQALI or placebo with NSAI plus goserelin are summarized in Table 20, Figure 4, and Figure 5. Consistent results were observed in stratification factor subgroups of disease site and prior chemotherapy for advanced disease.

	KISQALI + NSAI + Goserelin	Placebo + NSAI + Goserelin		
Progression-Free Survival ¹	N = 248	N = 247		
Events (n, %)	92 (37.1)	132 (53.4)		
Median (months, 95% CI)	27.5 (19.1, NR)	13.8 (12.6, 17.4)		
Hazard Ratio (95% CI)	0.569 (0.4	36, 0.743)		
Overall Survival	N = 248	N = 247		
Events (n, %)	61 (24.6)	80 (32.4)		
Median (months, 95% CI)	NR (NR, NR)	40.7 (37.4, NR)		
Hazard Ratio (95% CI)	0.699 (0.5	0.699 (0.501, 0.976)		
Overall Response Rate for patients with measurable disease ^{*,1}	N = 192	N = 199		
Overall Response Rate (95% CI)	50.5 (43.4, 57.6)	36.2 (29.5, 42.9)		

Abbreviations: CI, confidence interval; NR, not reached; NSAI, non-steroidal aromatase inhibitors.

*Based on confirmed responses.

¹Investigator Assessment.

Figure 4: Kaplan-Meier Plot of Progression-Free Survival - MONALEESA-7
(NSAI, Investigator Assessment)

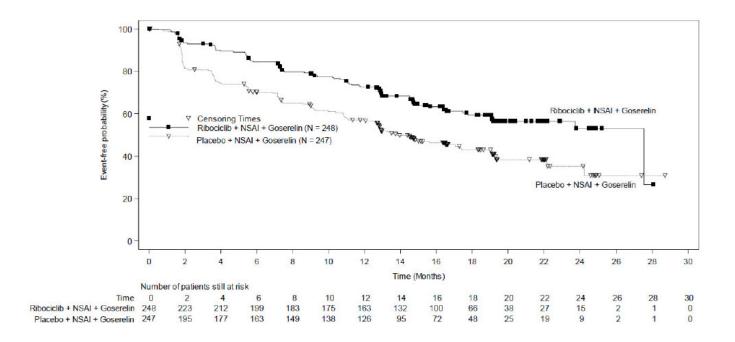
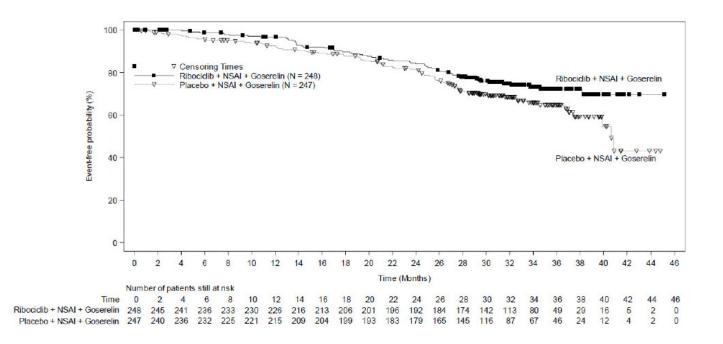


Figure 5: Kaplan-Meier Plot of Overall Survival - MONALEESA-7 (NSAI, Investigator Assessment)



MONALEESA-3: KISQALI in Combination with Fulvestrant

Postmenopausal Women with HR-positive, HER2-negative Advanced or Metastatic Breast Cancer for Initial Endocrine-Based Therapy or After Disease Progression on Endocrine Therapy

MONALEESA-3 (NCT06129786) was a randomized (2:1) double-blind, placebo-controlled study of ribociclib in combination with fulvestrant for the treatment of postmenopausal women (N=726) with hormone receptor positive, HER2-negative, advanced breast

cancer who have received no or only one line of prior endocrine treatment.

Participants were randomized to receive KISQALI 600 mg and fulvestrant or placebo and fulvestrant, stratified according to the presence of liver and/or lung metastases and prior endocrine therapy for advanced or metastatic disease. Fulvestrant 500 mg was administered intramuscularly on Days 1, 15, 29, and once monthly thereafter, with either KISQALI 600 mg or placebo given orally once daily for 21 consecutive days followed by 7 days off until disease progression or unacceptable toxicity. The major efficacy outcome measure for the study was investigator-assessed progression-free survival (PFS) using Response Evaluation Criteria in Solid Tumors (RECIST) v1.1.

The median age was 63 years (range, 31 to 89). Of the patients enrolled, 47% were 65 years and older, including 14% age 75 years and older. The patients enrolled were primarily White (85%), Asian (9%), and Black (0.7%). Nearly all patients (99.7%) had an ECOG performance status of 0 or 1. Patients enrolled in this study were treated in the first- or second-line setting, and 19% had *de novo* metastatic disease. Forty-three percent (43%) of patients had received chemotherapy in the adjuvant vs. 13% in the neoadjuvant setting, and 59% had received endocrine therapy in the adjuvant vs. 1% in the neoadjuvant setting prior to study entry. Twenty-one percent (21%) of patients had bone only disease, and 61% had visceral disease. Demographics and baseline disease characteristics were balanced and comparable between study arms.

The efficacy results from MONALEESA-3 are summarized in Table 21, Figure 6, and Figure 7. Consistent results were observed in stratification factor subgroups of disease site and prior endocrine treatment for advanced disease.

	KISQALI + Fulvestrant Placebo + Fulvestrant			
Progression-Free Survival ^{a,1}	N = 484	N = 242		
Events (n, %)	210 (43.4)	151 (62.4)		
Median (months, 95% CI)	20.5 (18.5, 23.5)	12.8 (10.9, 16.3)		
Hazard Ratio (95% CI)	0.593 (0.4	80, 0.732)		
p-value ^a	< 0.	0001		
Overall Survival	N = 484	N = 242		
Events (n, %)	167 (34.5)	108 (44.6)		
Median (months, 95% CI)	NR (42.5, NR)	40.0 (37.0, NR)		
Hazard Ratio (95% CI)	0.724 (0.568, 0.924)			
p-value ^a	0.00)455		
Overall Response Rate for				
patients with measurable disease ^{*,1}	N = 379	N = 181		
Overall Response Rate (95% CI)	40.9 (35.9, 45.8)	28.7 (22.1, 35.3)		
disease ^{*,1}	40.9 (35.9, 45.8)			

Table 21: Efficacy Results - MONALEESA-3 (Investigator Assessment, Intent-
to-Treat Population)

Abbreviations: CI, confidence interval; NR, not reached.

^ap-value is obtained from the one-sided log-rank.

*Based on confirmed responses.

¹Investigator Assessment.

(Investigator Assessment, Intent-to-Treat Population)

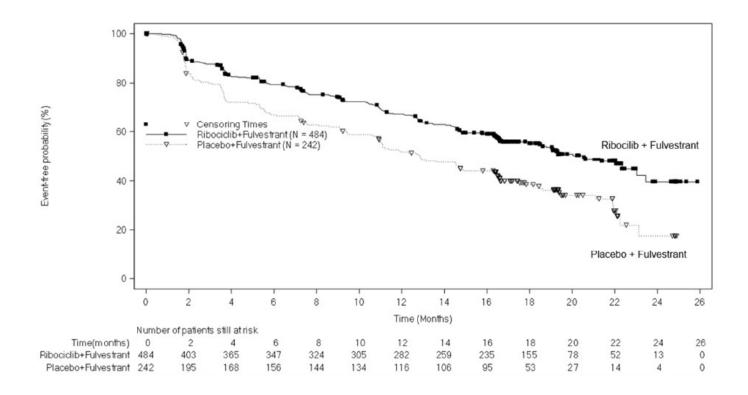
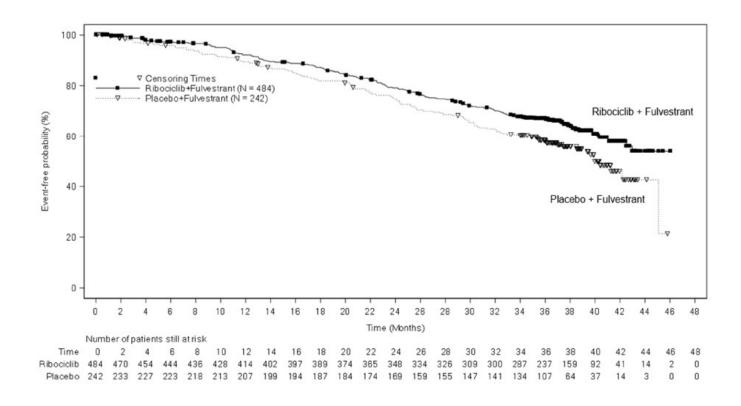


Figure 7: Kaplan-Meier Plot of Overall Survival - MONALEESA-3 (Investigator Assessment, Intent-to-Treat Population)



COMPLEEMENT-1: KISQALI in combination with Letrozole with or without Goserelin or

<u>Leuprolide</u>

Men with HR-positive, HER2-negative Advanced or Metastatic Breast Cancer for Initial Endocrine-Based Therapy

COMPLEEMENT-1 (NCT 02941926) was an open-label, multicenter clinical study of ribociclib in combination with letrozole and goserelin or leuprolide for the treatment of adults with HR-positive, HER2-negative, advanced breast cancer who received no prior hormonal therapy for advanced disease.

The study included 39 male patients who received KISQALI 600 mg orally once daily for 21 consecutive days followed by 7 days off; and letrozole 2.5 mg orally once daily for 28 days; and goserelin 3.6 mg as injectable subcutaneous implant or leuprolide 7.5 mg as intramuscular injection administered on Day 1 of each 28-day cycle. Patients were treated until disease progression or unacceptable toxicity occurred.

Male patients enrolled in this study had a median age of 62 years (range, 33 to 80). Of these patients, 39% were 65 years and older, including 10% aged 75 years and older. The male patients enrolled were White (72%), Asian (8%), and Black (3%), with 17% unknown. Nearly all male patients (97%) had an ECOG performance status of 0 or 1. The majority of male patients (97%) had 4 or less metastatic sites, which were primarily bone and visceral (69% each). Table 22 summarizes the efficacy results in male patients from COMPLEEMENT-1.

Table 22: Efficacy Results in Male Patients¹ - COMPLEEMENT-1 (Investigator Assessment, Intent-to-Treat Population)

	KISQALI + Letrozole + Goserelin or Leuprolide
Overall Response Rate for patients with measurable disease ^{*,2}	N = 32
Overall Response Rate (95% CI)	46.9 (29.1, 65.3)
Duration of Response (DoR) ³	N = 15
Median (months, 95% CI)	NR (21.3, NR)
Patients with DoR \geq 12 months, n (%)	12 (80.0)

Abbreviations: CI, confidence interval, NR,

not reached. *Based on confirmed responses. ¹Patients with measurable disease. ²Investigator Assessment. ³Proportion of patients with complete response or partial response.

16 HOW SUPPLIED/STORAGE AND HANDLING

KISQALI (ribociclib) Tablets

Each film-coated tablet contains 200 mg of ribociclib free base.

Light greyish violet, round, curved with beveled edge, debossed with "RIC" on one side and "NVR" on the other side; available in:

Carton of 3 blister packs (63 tablets total) – each blister pack contains a 7-day supply of 21 tablets (200 mg per tablet) (600 mg daily dose). NDC 0078-0874-63

Carton of 3 blister packs (42 tablets total) – each blister pack contains a 7-day supply of 14 tablets (200 mg per tablet) (400 mg daily dose). NDC 0078-0867-42

Carton of 1 blister pack (21 tablets total) – each blister pack contains a 21-day supply of 21 tablets (200 mg per tablet) (200 mg daily dose). NDC 0078-0860-01

Store refrigerated at 2°C to 8°C (36°F to 46°F). Excursions permitted between 2°C and 15°C (36°F and 59°F).

After dispensing, patients may store at room temperature at 20°C to 25°C (68°F to 77°F) for up to 2 months.

Store tablets in the original blister pack.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information).

Interstitial Lung Disease/Pneumonitis

Advise patients to immediately report new or worsening respiratory symptoms [see Warnings and Precautions (5.1)].

Severe Cutaneous Adverse Reactions

Inform patients of the signs and symptoms of severe cutaneous adverse reactions (e.g., skin pain/burning, rapidly-spreading skin rash, and/or mucosal lesions accompanied by fever or flu-like symptoms). Advise patients to contact their healthcare provider immediately if they develop signs and symptoms of severe cutaneous adverse reactions [see Warnings and Precautions (5.2)].

QT Prolongation

Inform patients of the signs and symptoms of QT prolongation. Advise patients to

contact their healthcare provider immediately for signs or symptoms of QT prolongation *[see Warnings and Precautions (5.3, 5.4)]*.

Hepatobiliary Toxicity

Inform patients of the signs and symptoms of hepatobiliary toxicity. Advise patients to contact their healthcare provider immediately for signs or symptoms of hepatobiliary toxicity [see Warnings and Precautions (5.5)].

<u>Neutropenia</u>

Advise patients of the possibility of developing neutropenia and to immediately contact their healthcare provider should they develop a fever, particularly in association with any suggestion of infection [see Warnings and Precautions (5.6)].

Embryo-Fetal Toxicity

- Advise pregnant women and females of reproductive potential of the potential risk to a fetus. Advise females to inform their healthcare provider of a known or suspected pregnancy [see Warnings and Precautions (5.7), Use in Specific Populations (8.1)].
- Advise females of reproductive potential to use effective contraception during KISQALI therapy and for at least 3 weeks after the last dose [Use in Specific Populations (8.3)].

Lactation

Advise lactating women not to breastfeed during treatment with KISQALI and for at least 3 weeks after the last dose [see Use in Specific Populations (8.2)].

Drug Interactions

• Inform patients to avoid strong CYP3A inhibitors, strong CYP3A inducers, and drugs known to prolong the QT interval [see Drug Interactions (7.1, 7.2, 7.4)].

<u>Dosing</u>

- Instruct patients to take the doses of KISQALI at approximately the same time every day and to swallow whole (do not chew, crush, or split them prior to swallowing) [see Dosage and Administration (2.1)].
- If patient vomits or misses a dose, advise the patient to take the next prescribed dose at the usual time [see Dosage and Administration (2.1)].
- Advise the patient that KISQALI may be taken with or without food [see Dosage and Administration (2.1)].

<u>Storage</u>

After dispensing, advise patients to store at room temperature at 20°C to 25°C (68°F to 77°F) for up to 2 months.

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T2024-66

KISOALI[®] (kis kah' lee) (ribociclib) tablets

What is the most important information I should know about KISQALI? KISQALI may cause serious side effects, including:

- Lung problems. KISQALI may cause severe or life-threatening inflammation of the lungs during treatment that may lead to death. Tell your healthcare provider right away if you have any new or worsening symptoms, including:
 - trouble breathing or shortness of breath
 - cough with or without mucus
 - chest pain
- Severe skin reactions. Tell your healthcare provider or get medical help right away if you get severe rash or rash that keeps getting worse, reddened skin, flu-like symptoms, skin pain or burning, blistering of the lips, eyes or mouth, blisters on the skin or skin peeling, with or without fever.
- Heart rhythm problems (QT prolongation). KISQALI can cause a heart problem known as QT prolongation This condition can cause an abnormal heartbeat and may lead to death.
 - Your healthcare provider should check your heart and do blood tests before and during treatment with KISQALI.
 - Tell your healthcare provider right away if you have a change in your heartbeat (a fast or irregular heartbeat), or if you feel dizzy or faint.
- Liver problems. KISQALI can cause serious liver problems. Your healthcare provider should do blood tests to check your liver before and during treatment with KISQALI. Tell your healthcare provider right away if you get any of the following signs and symptoms of liver problems:

o yellowing of your skin or the whites of ${}^{
m o}$ loss of appetite your eyes (jaundice)

o dark or brown (tea-colored) urine o feeling very tired

o pain on the upper right side of your stomach area (abdomen) o bleeding or bruising more easily than normal

• Low white blood cell counts (neutropenia). Low white blood cell counts are very common during treatment with KISQALI and may result in infections that may be severe. Your healthcare provider should check your white blood cell counts before and during treatment with KISQALI. Tell your healthcare provider right away if you have signs and symptoms of low white blood cell counts or infections, such as fever and chills.

Your healthcare provider may tell you to decrease your dose, temporarily stop or completely stop taking KISQALI if you develop certain serious side effects during treatment with KISOALI.

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

What is KISOALI?

KISOALI is a prescription medicine used to treat adults with hormone receptor (HR)positive, human epidermal growth factor receptor 2 (HER2)-negative breast cancer:

• in combination with an aromatase inhibitor for stage II and III early breast cancer with a high risk of coming back.

- that has gotten worse or has spread to other parts of the body (advanced or metastatic breast cancer) in combination with:
 - an aromatase inhibitor as the first endocrine-based therapy, **or**
 - fulvestrant as the first endocrine-based therapy or following disease progression on endocrine therapy.

It is not known if KISQALI is safe and effective in children.

Before taking KISQALI, tell your healthcare provider about all of your medical conditions, including if you:

- have any heart problems, including heart failure, irregular heartbeats, and QT prolongation
- have ever had a heart attack
- have a slow heartbeat (bradycardia)
- have high blood pressure that is not controlled
- have decreased thyroid gland function (hypothyroidism)
- have problems with the amount of potassium, calcium, phosphorus, or magnesium in your blood
- have fever, chills, or any other signs or symptoms of infection
- have liver problems
- have kidney problems
- are pregnant, or plan to become pregnant. KISQALI can harm your unborn baby.
 - If you are able to become pregnant, your healthcare provider should do a pregnancy test before you start treatment with KISQALI.
 - Females who are able to become pregnant and who take KISQALI should use effective birth control during treatment and for at least 3 weeks after the last dose of KISQALI.
 - Talk to your healthcare provider about birth control methods that may be right for you during this time.
 - If you become pregnant or think you are pregnant, tell your healthcare provider right away.
- are breastfeeding or plan to breastfeed. It is not known if KISQALI passes into your breast milk. Do not breastfeed during treatment with KISQALI and for at least 3 weeks after the last dose of KISQALI.

Tell your healthcare provider about all the medicines you take, including

prescription and over-the-counter medicines, vitamins, and herbal supplements. KISQALI and other medicines may affect each other causing side effects. Know the medicines you take. Keep a list of them to show your healthcare provider or pharmacist when you get a new medicine.

How should I take KISQALI?

- Take KISQALI exactly as your healthcare provider tells you.
- Do not change your dose or stop taking KISQALI without talking to your healthcare provider.
- Swallow KISQALI tablets whole. Do not chew, crush, or split KISQALI tablets before swallowing them.
- Take KISQALI each day at about the same time, preferably in the morning.
- Take KISQALI with or without food.
- Do not take any KISQALI tablets that are broken, cracked, or that look damaged.
- If you miss a dose of KISQALI or vomit after taking a dose of KISQALI, do not take

another dose on that day. Take your next dose at your regular time.

What are the possible side effects of KISQALI? KISQALI may cause serious side effects, including:

• See "What is the most important information I should know about **KISQALI?**"

The most common side effects of KISQALI in people with early breast cancer include:

decreased white
 decreased platelet

blood cell counts counts

- decreased red
 nausea
- blood cell counts headache
- increased liver
 tiredness function tests
 - infections
 - increased kidney

function test

The most common side effects of KISQALI in people with advanced or metastatic breast cancer include:

- decreased white
 nausea
- blood cell counts increased kidney decreased red function test
- diarrhea • vomitina
- headache
- increased liver
 decreased platelet
 constipation function tests
- blood cell counts tiredness

counts

- hair loss
- cough
- rash
- back pain
- low blood sugar
- level

infections

KISQALI may cause fertility problems in males, which may affect your ability to father a child. Talk to your healthcare provider if this is a problem for you.

Tell your healthcare provider if you have any side effect that bothers you or that does not go away.

These are not all of the possible side effects of KISQALI. For more information, ask your healthcare provider or pharmacist.

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

How should I store KISOALI?

- Store KISQALI at room temperature between 68°F to 77°F (20°C to 25°C) for up to 2 months.
- Store KISQALI in the original blister pack.

Keep KISQALI and all medicines out of the reach of children.

General information about the safe and effective use of KISQALI.

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

What are the ingredients in KISOALI?

Active ingredient: ribociclib

Inactive ingredients: colloidal silicon dioxide, crospovidone, hydroxypropylcellulose,

magnesium stearate, and microcrystalline cellulose. The film-coating contains iron oxide black, iron oxide red, lecithin (soya), polyvinyl alcohol (partially hydrolyzed), talc, titanium dioxide, and xanthan gum.

Distributed by: Novartis Pharmaceuticals Corporation, East Hanover, New Jersey 07936 $\ensuremath{\mathbb{C}}$ Novartis

For more information, go to www.KISQALI.com or call 1-888-669-6682.

This Patient Information has been approved by the U.S. Food and
Drug Administration.Revised: February
2025

T2025-08

PRINCIPAL DISPLAY PANEL

NDC 0078-0860-01

Rx only

Kisqali[®] (ribociclib) tablets

200 mg daily dose

(one 200 mg tablet)

21 Film-coated tablets

Contents: 1 individual monthly blister pack. Blister pack contains 21 tablets (200 mg per tablet).

Storage: Store refrigerated at 2°C to 8°C (36°F to 46°F). Excursions permitted between 2°C and 15°C (36°F and 59°F). After dispensing, patients may store at room temperature at 20°C to 25°C (68°F to 77°F) for up to 2 months.

NOVARTIS



PRINCIPAL DISPLAY PANEL

NDC 0078-0867-42

Rx only

Kisqali[®] (ribociclib) tablets

400 mg daily dose

(two 200 mg tablets)

42 Film-coated tablets

Contents: 3 individual weekly blister packs. Each blister pack contains 14 tablets (200 mg per tablet).

Storage: Store refrigerated at 2°C to 8°C (36°F to 46°F). Excursions permitted between 2°C and 15°C (36°F and 59°F). After dispensing, patients may store at room temperature at 20°C to 25°C (68°F to 77°F) for up to 2 months.

NOVARTIS



PRINCIPAL DISPLAY PANEL

NDC 0078-0874-63

Rx only

Kisqali[®] (ribociclib) tablets

600 mg daily dose

(three 200 mg tablets)

63 Film-coated tablets

Contents: 3 individual weekly blister packs. Each blister pack contains 21 tablets (200 mg per tablet).

Storage: Store refrigerated at 2°C to 8°C (36°F to 46°F). Excursions permitted between 2°C and 15°C (36°F and 59°F). After dispensing, patients may store at room temperature at 20°C to 25°C (68°F to 77°F) for up to 2 months.

NOVARTIS



KISQALI						
ribociclib tablet, film c	oated					
	Jourca					
Product Informat	tion					
Product Type		HUMAN PRESCRIPTION DRUG	ltem Cod	le (Source)		078-0860
Route of Administra	.	ORAL			n bore	
Route of Administra	tion	ONAL				
Active Ingredient	/Active	Moiety				
	Ingr	edient Name		Basis of St	rength	Strengt
RIBOCICLIB SUCCINAT	E (UNII: BO	G7HLX2919) (RIBOCICLIB - UNII:TK8	ERE8P56)	RIBOCICLIB		200 mg
Inactiva Ingradia	et a					
Inactive Ingredie	nts					
		Ingredient Name			S	strength
SILICON DIOXIDE (UNII:						
		JNSPECIFIED (UNII: 9XZ8H6N6OH)			
MAGNESIUM STEARATI)			
MICROCRYSTALLINE C	•	·				
FERROSOFERRIC OXID						
FERRIC OXIDE RED (UN	III: 1K09F3	G675)				
LECITHIN, SOYBEAN (U	INII: 1DI56	QDM62)				
POLYVINYL ALCOHOL,	UNSPECI	FIED (UNII: 532B59J990)				
TALC (UNII: 7SEV7J4R1U))					
TITANIUM DIOXIDE (UN	III: 15FIX9V	2JP)				
XANTHAN GUM (UNII: TT	TV12P4NEE	Ξ)				
Product Characte	ristics					
		greyish violet)	Score		no s	score
			Size		11n	

Flavor			Imprint	Code	RIC;NVR		
Contains							
Packaging							
# Item Code	Pa	ckage Description		ting Start Date	Marketing E Date	End	
1 NDC:0078- 0860-01	1 in 1 CARTON		03/13/201	7			
1	21 in 1 BLISTE Product	R PACK; Type 0: Not a Combination					
Marketing	j Informat	ion					
Marketing Category	Applica	tion Number or Monograph Citation		ting Start Date	Marketing I Date	Marketing End Date	
NDA	NDA209092		03/13/201	17			
ibociclib tablet	, film coated						
Product Info	ormation						
Product Type		HUMAN PRESCRIPTION DRUG	Item Code (Source)		NDC:0078-08	NDC:0078-0867	
Route of Admi	nistration	ORAL					
Active Ingre	dient/Active	Moiety					
	Ingi	edient Name		Basis of S	strength Stre	ngt	
RIBOCICLIB SUC	CCINATE (UNII: B	G7HLX2919) (RIBOCICLIB - UNII:TK8	ERE8P56)	RIBOCICLIB	200 m	ng	
Inactive Ing	redients						
		Ingredient Name			Streng	yth	
SILICON DIOXID	E (UNII: ETJ7Z6XE	3U4)					
CROSPOVIDONE	(UNII: 2S7830E5	61)					
		UNSPECIFIED (UNII: 9XZ8H6N6OH)					
MAGNESIUM STI							
		E (UNII: OP1R32D61U)					
LECITHIN, SOYB		QDM62) FIED (UNII: 532B59J990)					
TALC (UNII: 7SEV							
		/2 P)					
XANTHAN GUM (
		•					

Pr	roduct Chara	acteristics			
Co	olor	PURPLE (light greyish violet)	Score no score		
Sh	аре	ROUND	Size	11mm	
Fla	avor		Imprint Code	RIC;NVR	
Со	ontains				
Pa	ackaging				
#	ltem Code	Package Description	Marketing Start Date	Marketing End Date	
	NDC:0078- 0867-42	3 in 1 CARTON	03/13/2017		
		14 in 1 BLISTER PACK; Type 0: Not a Combination Product			
Μ	arketing	Information			
	Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
ND	A	NDA209092	03/13/2017		

KISQALI ribociclib tablet, film coated **Product Information Product Type** HUMAN PRESCRIPTION DRUG NDC:0078-0874 Item Code (Source) **Route of Administration** ORAL **Active Ingredient/Active Moiety Ingredient Name Basis of Strength Strength RIBOCICLIB SUCCINATE** (UNII: BG7HLX2919) (RIBOCICLIB - UNII:TK8ERE8P56) RIBOCICLIB **Inactive Ingredients Ingredient Name** Strength **SILICON DIOXIDE** (UNII: ETJ7Z6XBU4) CROSPOVIDONE (UNII: 2S7830E561) HYDROXYPROPYL CELLULOSE, UNSPECIFIED (UNII: 9XZ8H6N6OH)

MAGNESIUM STEARATE (UNII: 70097M6I30) MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U) FERROSOFERRIC OXIDE (UNII: XM0M87F357) FERRIC OXIDE RED (UNII: 1K09F3G675) LECITHIN, SOYBEAN (UNII: 1DI56QDM62) POLYVINYL ALCOHOL, UNSPECIFIED (UNII: 532B59J990) TALC (UNII: 7SEV7J4R1U)

200 mg

TITANIUM DIO	(U	INII: 15FIX9V2JP)				
XANTHAN GUM	(UNII: [·]	TTV12P4NEE)				
Product Cha	aract	eristics				
Color	PI	JRPLE (light greyish violet)	Score	no score		
Shape	R	DUND	Size	11mm		
Flavor			Imprint Code	RIC;NVR		
Contains						
Packaging						
# Item Cod	e	Package Description	Marketing Start Date	Marketing End Date		
1 NDC:0078- 0874-63	3 ir	1 CARTON	03/13/2017			
1 NDC:0078- 0874-21		in 1 BLISTER PACK; Type 0: Not a Combination duct				
Markotin	a In	formation				
Marketing Information						
Marketing		Application Number or Monograph Citation	Marketing Start Date	Marketing End Date		
Category						
		NDA209092	03/13/2017			

Labeler - Novartis Pharmaceuticals Corporation (002147023)

Revised: 2/2025

Novartis Pharmaceuticals Corporation