EVEROLIMUS - everolimus tablet
Natco Pharma Limited

HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use EVEROLIMUS TABLETS safely and effectively. See full prescribing information for EVEROLIMUS TABLETS.
EVEROLIMUS tablets, for oral use
Initial U.S. Approval: 2009

RECENT MAJOR CHANGES

Warnings and Precautions, Risk of Impaired Wound Healing (5.7) 2/2020

INDICATIONS AND USAGE

Everolimus tablets are a kinase inhibitor indicated for the treatment of:

- Adults with advanced renal cell carcinoma (RCC) after failure of treatment with sunitinib or sorafenib. (1.3)
- Adults with renal angiomyolipoma and tuberous sclerosis complex (TSC), not requiring immediate surgery. (1.4)

Everolimus tablets are kinase inhibitors indicated for the treatment of adult and pediatric patients aged 1 year and older with TSC who have subependymal giant cell astrocytoma (SEGA) that requires therapeutic intervention but cannot be curatively resected. (1.5)

DOSAGE AND ADMINISTRATION

Modify the dose for patients with hepatic impairment or for patients taking drugs that inhibit or induce P-glycoprotein (P-gp) and CYP3A4. (2.1)

RCC:

- 10 mg orally once daily. (2.4)

TSC-Associated Renal Angiomyolipoma:

- 10 mg orally once daily. (2.5)

TSC-Associated SEGA:

- 4.5 mg/m^2 orally once daily; adjust dose to attain trough concentrations of 5-15 ng/mL. (2.6, 2.8)

DOSAGE FORMS AND STRENGTHS

- Everolimus Tablets: 2.5 mg, 5 mg, 7.5 mg and 10 mg tablets with no score (3)

CONTRAINDICATIONS

Clinically significant hypersensitivity to everolimus or to other rapamycin derivatives. (4)

WARNINGS AND PRECAUTIONS

- Non-Infectious Pneumonitis: Monitor for clinical symptoms or radiological changes. Withhold or permanently discontinue based on severity. (2.9, 5.1)
- Infections: Monitor for signs and symptoms of infection. Withhold or permanently discontinue based on severity. (2.9, 5.2)
- Severe Hypersensitivity Reactions: Permanently discontinue for clinically significant hypersensitivity. (5.3)
- Angioedema: Patients taking concomitant angiotensin-converting-enzyme (ACE) inhibitors may be at increased risk for angioedema. Permanently discontinue for angioedema. (5.4, 7.2)
- Stomatitis: Initiate dexamethasone alcohol-free mouthwash when starting treatment. (5.5, 6.1)
- Renal Failure: Monitor renal function prior to treatment and periodically thereafter. (5.6)
- Risk of Impaired Wound Healing: Withhold for at least 1 week prior to elective surgery. Do not administer for at least 2 weeks following major surgery and until adequate wound healing. The safety of resumption of treatment after resolution of wound healing complications has not been established. (5.7)
- Geriatric Patients: Monitor and adjust dose for adverse reactions. (5.8)
- Metabolic Disorders: Monitor serum glucose and lipids prior to treatment and periodically thereafter. Withhold or permanently discontinue based on severity (2.9, 5.9)
- Myelosuppression: Monitor hematologic parameters prior to treatment and periodically thereafter. Withhold or permanently discontinue based on severity. (2.9, 5.10)
- Risk of Infection or Reduced Immune Response with Vaccination: Avoid live vaccines and close contact with those who have received live vaccines. Complete recommended childhood vaccinations prior to starting treatment. (5.11)
- Embryo-Fetal Toxicity: Can cause fetal harm. Advise patients of reproductive potential of the potential risk to a fetus and to use effective contraception. (5.12,8.1, 8.3)

ADVERSE REACTIONS

- RCC: Most common adverse reactions (incidence ≥ 30%) include stomatitis, infections, rash, fatigue, diarrhea, edema, abdominal pain, nausea, fever, asthenia, cough, headache and decreased appetite. (6.1)
- TSC-Associated Renal Angiomyolipoma: Most common adverse reaction (incidence ≥ 30%) is stomatitis. (6.1)
- TSC-Associated SEGA: Most common adverse reactions (incidence ≥ 30%) are stomatitis and respiratory tract infection. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Breckenridge Pharmaceutical, Inc. at 1-800-367-3395 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- P-gp and strong CYP3A4 inhibitors: Avoid concomitant use. (2.11, 7.1)
- P-gp and moderate CYP3A4 inhibitors: Reduce the dose as recommended. (2.11, 7.1)
- P-gp and strong CYP3A4 inducers: Increase the dose as recommended. (2.12, 7.1)

USE IN SPECIFIC POPULATIONS

- For RCC, or TSC-associated renal angiomyolipoma patients with hepatic impairment, reduce the dose. (2.10, 8.6)
- For patients with TSC-associated SEGA and severe hepatic impairment, reduce the starting dose and adjust dose to attain target trough concentrations. (2.8, 2.10, 8.6)

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 3/2021

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.3 Renal Cell Carcinoma (RCC)

Everolimus tablets are indicated for the treatment of adult patients with advanced RCC after failure of treatment with sunitinib or sorafenib.

1.4 Tuberous Sclerosis Complex (TSC)-Associated Renal Angiomyolipoma

Everolimus tablets are indicated for the treatment of adult patients with renal angiomyolipoma and TSC, not requiring immediate surgery.

1.5 Tuberous Sclerosis Complex (TSC)-Associated Subependymal Giant Cell Astrocytoma (SEGA)

Everolimus tablets are indicated in adult and pediatric patients aged 1 year and older with TSC for the treatment of SEGA that requires therapeutic intervention but cannot be curatively resected.

2 DOSAGE AND ADMINISTRATION

2.1 Important Dosage Information

- Modify the dosage for patients with hepatic impairment or for patients taking drugs that inhibit or induce P-glycoprotein (P-gp) and CYP3A4 *[see Dosage and Administration (2.10, 2.11, 2.12)].*

2.4 Recommended Dosage for Renal Cell Carcinoma (RCC)

The recommended dosage of everolimus tablets is 10 mg orally once daily until disease progression or unacceptable toxicity.

2.5 Recommended Dosage for Tuberous Sclerosis Complex (TSC)-Associated Renal Angiomyolipoma

The recommended dosage of everolimus tablets is 10 mg orally once daily until disease progression or unacceptable toxicity.

2.6 Recommended Dosage for Tuberous Sclerosis Complex (TSC)-Associated Subependymal Giant Cell Astrocytoma (SEGA)

The recommended starting dosage of everolimus tablets is 4.5 mg/m^2 orally once daily until disease progression or unacceptable toxicity *[see Dosage and Administration (2.8)].*

2.8 Therapeutic Drug Monitoring (TDM) and Dose Titration for Tuberous Sclerosis Complex (TSC)-Associated Subependymal Giant Cell Astrocytoma (SEGA)

- Monitor everolimus whole blood trough concentrations at time points recommended in Table 1.
- Titrate the dose to attain trough concentrations of 5 ng/mL to 15 ng/mL.
- Adjust the dose using the following equation:

New dose* = current dose x (target concentration divided by current concentration)

* The maximum dose increment at any titration must not exceed 5 mg. Multiple dose titrations may be required to attain the target trough concentration.

- When possible, use the same assay and laboratory for TDM throughout treatment.

Table 1: Recommended Timing of Therapeutic Drug Monitoring

Event	When to Asses Trough Concentrations After Event

Initiation of everolimus tablets	1 to 2 weeks
Modification of everolimus tablets dose	1 to 2 weeks
Initiation or discontinuation of P-gp and moderate CYP3A4 inducer	2 weeks
Initiation or discontinuation of P-gp and strong CYP3A4 inducer	2 weeks
Change in hepatic function	2 weeks
Stable dose with changing body surface area (BSA)	Every 3 to 6 months
Abbreviation: P-gp, P-glycoprotein.	Every 6 to 12 months

2.9 Dosage Modifications for Adverse Reactions

Table 2 summarizes recommendations for dosage modifications of everolimus tablets for the management of adverse reactions.

Table 2: Recommended Dosage Modifications for Everolimus Tablets for Adverse Reactions

Adverse Reactions	Severity	Dosage Modification
Non-infectious pneumonitis *[see warnings and precautions (5.1)]*	Grade 2	Withhold until improvement to Grade 0 or 1. Resume at 50% of previous dose; change to every other day dosing if the reduced dose is lower than the lowest available strength. Permanently discontinue if toxicity does not resolve or improve to Grade 1 within 4 weeks.
	Grade 3	Withhold until improvement to Grade 0 or 1. Resume at 50% of previous dose; change to every other day dosing if the reduced dose is lower than the lowest available strength.
	Grade 4	If toxicity recurs at Grade 3, permanently discontinue. Permanently discontinue.
Stomatitis *[see warnings and precautions (5.5)]*	Grade 2	Withhold until improvement to Grade 0 or 1. Resume at same dose. If recurs at Grade 2, withhold until improvement to Grade 0 or 1.Resume at 50% of previous dose; change to every other day dosing if the reduced dose is lower than the lowest available strength.
	Grade 3	Withhold until improvement to Grade 0 or 1. Consider resuming at 50% of previous dose; change to every other day dosing if the reduced dose is lower than the lowest available strength.
	Grade 4	Permanently discontinue.
Metabolic events (e.g., hyperglycemia, dyslipidemia) *[see warnings and precautions (5.9)]*	Grade 3	Withhold until improvement to Grade 0, 1, or 2. Resume at 50% of previous dose; change to every other day dosing if the reduced dose is lower than the lowest available strength.
	Grade 4	Permanently discontinue.
Other non-hematologic toxicities	Grade 2	If toxicity becomes intolerable, withhold until improvement to Grade 0 or 1. Resume at same dose. If toxicity recurs at Grade 2, withhold until improvement to Grade 0 or 1. Resume at 50% of previous dose; change to every other day dosing if the reduced dose is lower than the lowest available strength.
	Grade 3	Withhold until improvement to Grade 0 or 1. Consider resuming at 50% of previous dose; change to every other day dosing if the reduced dose is lower than the lowest available strength. If recurs at Grade 3, permanently discontinue.
	Grade 4	Permanently discontinue.
Thrombocytopenia *[see warnings and precautions (5.10)]*	Grade 2	Withhold until improvement to Grade 0 or 1. Resume at same dose.
	Grade 3 **OR** Grade 4	Withhold until improvement to Grade 0 or 1. Resume at 50% of previous dose; change to every other day dosing if the reduced dose is lower than the lowest available strength.
Neutropenia *[see warnings and precautions (5.10)]*	Grade 3	Withhold until improvement to Grade 0, 1 or 2. Resume at same dose.
	Grade 4	Withhold until improvement to Grade 0, 1 or 2. Resume at 50% of previous dose; change to every other day dosing if the reduced dose is lower than the lowest available strength.
Febrile neutropenia *[see warnings and precautions (5.10)]*	Grade 3	Withhold until improvement to Grade 0, 1 or 2 and no fever. Resume at 50% of previous dose; change to every other day dosing if the reduced dose is lower than the lowest available strength.
	Grade 4	Permanently discontinue.

2.10 Dosage Modifications for Hepatic Impairment

The recommended dosages of everolimus tablets for patients with hepatic impairment are described in Table 3 *[see Use in Specific Populations (8.6)]:*

Table 3: Recommended Dosage Modifications for Patients with Hepatic Impairment

Indication	Dose Modification for Everolimus Tablets
RCC, and TSC-Associated Renal Angiomyolipoma	• Mild hepatic impairment (Child-Pugh class A) – 7.5 mg orally once daily; decrease the dose to 5 mg orally daily if a dose of 7.5 mg once daily is not tolerated.
	• Moderate hepatic impairment (Child-Pugh class B) – 5 mg orally once daily; decrease the dose to 2.5 mg orally once daily if a dose of 5 mg once daily is not tolerated.
	• Severe hepatic impairment (Child-Pugh class C) – 2.5 mg orally

	once daily if the desired benefit outweighs the risk; do not exceed a dose of 2.5 mg once daily.
TSC-Associated SEGA	• Severe hepatic impairment (Child-Pugh class C) – 2.5 mg/m^2 orally once daily. • Adjust dose based on everolimus trough concentrations as recommended *[see Dosage and administration (2.8)].*

Abbreviations: RCC, Renal Cell Carcinoma; SEGA, Subependymal Giant Cell Astrocytoma; TSC, Tuberous Sclerosis Complex.

2.11 Dosage Modifications for P-gp and CYP3A4 Inhibitors

- Avoid the concomitant use of P-gp and strong CYP3A4 inhibitors *[see Drug Interactions (7.1)]*.
- Avoid ingesting grapefruit and grapefruit juice.
- Reduce the dose for patients taking everolimus tablets with a P-gp and moderate CYP3A4 inhibitor as recommended in Table 4 *[see Drug Interactions (7.1), Clinical Pharmacology (12.3)].*

Table 4: Recommended Dosage Modifications for Concurrent Use of Everolimus Tablets with a P-gp and Moderate CYP3A4 Inhibitor

Indication	Dose Modification for Everolimus Tablets
RCC, and TSC-Associated Renal Angiomyolipoma	• Reduce dose to 2.5 mg once daily. • May increase dose to 5 mg once daily if tolerated. • Resume dose administration prior to inhibitor initiation, once the inhibitor is discontinue for 3 days.
TSC-Associated SEGA	• Reduce the daily dose by 50% • Change to every other day dosing if the reduced dose is lower than the lowest available strength. • Resume dose administered prior to inhibitor initiation, once the inhibitor is discontinued for 3 days. • Assess trough concentrations when initiating and discontinuing the inhibitor *[see Dosage and administration (2.8)].*

2.12 Dosage Modifications for P-gp and CYP3A4 Inducers

- Avoid concomitant use of St. John's Wort (*Hypericum perforatum*).
- Increase the dose for patients taking everolimus tablets with a P-gp and strong CYP3A4 inducer as recommended in Table 5 *[see Drug Interactions (7.1), Clinical Pharmacology (12.3)].*

Table 5: Recommended Dosage Modifications for Concurrent Use of Everolimus Tablets with P-gp and Strong CYP3A4 Inducers

Indication	Dose Modification for Everolimus Tablets
RCC, and TSC-Associated Renal Angiomyolipoma	• Avoid coadministration where alternatives exist. • If coadministration cannot be avoided, double the daily dose using increments of 5 mg or less. Multiple increments may be required. • Resume the dose administration prior to inhibitor initiation, once an inducer is discontinued fir 5 days.
TSC-Associated SEGA	• Double the daily dose using increments of 5 mg or less. Multiple increments may be required. • Addition of another strong CYP3A4 inducer in a patient already receiving treatment with a strong CYP3A4 inducer may not require additional dosage modification. • Assess trough concentrations when initiating and

	discontinuing the inducer *[see Dosage and administration (2.8)].* • Resume the dose administration before starting any inducer, once all inducers are discontinued for 5 days.

2.13 Administration and Preparation

- Administer everolimus tablets at the same time each day.
- Administer everolimus tablets consistently either with or without food *[see Clinical Pharmacology (12.3)].*
- If a dose of everolimus tablets is missed, it can be administered up to 6 hours after the time it is normally administered. After more than 6 hours, the dose should be skipped for that day. The next day, everolimus tablets should be administered at its usual time. Double doses should not be administered to make up for the dose that was missed.

Everolimus Tablets

Everolimus Tablets should be swallowed whole with a glass of water. Do not break or crush tablets.

3 DOSAGE FORMS AND STRENGTHS

Everolimus Tablets

2.5 mg tablet
White to off-white coloured, oval, flat shaped tablets and no score, debossed with 'EVR' on one side and '2.5' on the other side.

5 mg tablet
White to off-white coloured, oval, flat shaped tablets and no score, debossed with 'EVR' on one side and '5' on the other side.

7.5 mg tablet
White to off-white coloured, oval, flat shaped tablets and no score, debossed with 'EVR' on one side and '7.5' on the other side.

10 mg tablet
White to off-white coloured, oval, flat shaped tablets and no score, debossed with "EVR" on one side and "NAT" on the other side.

4 CONTRAINDICATIONS

Everolimus tablets are contraindicated in patients with clinically significant hypersensitivity to everolimus or to other rapamycin derivatives *[see Warnings and Precautions (5.3)]*.

5 WARNINGS AND PRECAUTIONS

5.1 Non-infectious Pneumonitis

Non-infectious pneumonitis is a class effect of rapamycin derivatives. Non-infectious pneumonitis was reported in up to 19% of patients treated with everolimus tablets in clinical trials, some cases were reported with pulmonary hypertension (including pulmonary arterial hypertension) as a secondary event. The incidence of Grade 3 and 4 non-infectious pneumonitis was up to 4% and up to 0.2%, respectively *[see Adverse Reactions (6.1)].* Fatal outcomes have been observed.

Consider a diagnosis of non-infectious pneumonitis in patients presenting with non-specific respiratory signs and symptoms. Consider opportunistic infections such as pneumocystis jiroveci pneumonia (PJP) in the differential diagnosis. Advise patients to report promptly any new or worsening respiratory symptoms.

Continue everolimus tablets without dose alteration in patients who develop radiological changes suggestive of non-infectious pneumonitis and have few or no symptoms. Imaging appears to overestimate the incidence of clinical pneumonitis.

For Grade 2 to 4 non-infectious pneumonitis, withhold or permanently discontinue everolimus tablets based on severity *[see Dosage and Administration (2.9)]*. Corticosteroids may be indicated until clinical symptoms resolve. Administer prophylaxis for PJP when concomitant use of corticosteroids or other immunosuppressive agents are required. The development of pneumonitis has been reported even at a reduced dose.

5.2 Infections

Everolimus tablets have immunosuppressive properties and may predispose patients to bacterial, fungal, viral, or protozoal infections, including infections with opportunistic pathogens *[see Adverse Reactions (6.1)]*. Localized and systemic infections, including pneumonia, mycobacterial infections, other bacterial infections, invasive fungal infections (e.g., aspergillosis, candidiasis, or PJP) and viral infections (e.g., reactivation of hepatitis B virus) have occurred. Some of these infections have been severe (e.g., sepsis, septic shock, or resulting in multisystem organ failure) or fatal. The incidence of Grade 3 and 4 infections was up to 10% and up to 3%, respectively. The incidence of serious infections was reported at a higher frequency in patients < 6 years of age *[see Use in Specific Populations (8.4)]*.

Complete treatment of preexisting invasive fungal infections prior to starting treatment. Monitor for signs and symptoms of infection. Withhold or permanently discontinue everolimus tablets based on severity of infection *[see Dosage and Administration (2.9)].*

Administer prophylaxis for PJP when concomitant use of corticosteroids or other immunosuppressive agents are required.

5.3 Severe Hypersensitivity Reactions

Hypersensitivity reactions to everolimus tablets have been observed and include anaphylaxis, dyspnea, flushing, chest pain, and angioedema (e.g., swelling of the airways or tongue, with or without respiratory impairment) *[see Contraindications (4)]*. The incidence of Grade 3 hypersensitivity reactions was up to 1%. Permanently discontinue everolimus tablets for the development of clinically significant hypersensitivity.

5.4 Angioedema with Concomitant Use of Angiotensin-Converting Enzyme (ACE) Inhibitors

Patients taking concomitant ACE inhibitors with everolimus tablets may be at increased risk for angioedema (e.g., swelling of the airways or tongue, with or without respiratory impairment). In a pooled analysis of randomized double-blind oncology clinical trials, the incidence of angioedema in patients taking everolimus tablets with an ACE inhibitor was 6.8% compared to 1.3% in the control arm with an ACE inhibitor. Permanently discontinue everolimus tablets for angioedema.

5.5 Stomatitis

Stomatitis, including mouth ulcers and oral mucositis, has occurred in patients treated with everolimus tablets at an incidence ranging from 44% to 78% across clinical trials. Grades 3-4 stomatitis was reported in 4% to 9% of patients *[see Adverse Reactions (6.1)]*. Stomatitis most often occurs within the first 8 weeks of treatment. When starting everolimus tablets, initiating dexamethasone alcohol-free oral solution as a swish and spit mouthwash reduces the incidence and severity of stomatitis *[see Adverse Reactions (6.1)]*. If stomatitis does occur, mouthwashes and/or other topical treatments are recommended. Avoid alcohol-, hydrogen peroxide-, iodine-, or thyme- containing products, as they may exacerbate the condition. Do not administer antifungal agents, unless fungal infection has been diagnosed.

5.6 Renal Failure

Cases of renal failure (including acute renal failure), some with a fatal outcome, have occurred in patients taking everolimus tablets. Elevations of serum creatinine and proteinuria have been reported in patients taking everolimus tablets *[see Adverse Reactions (6.1)]*. The incidence of Grade 3 and 4 elevations of serum creatinine was up to 2% and up to 1%, respectively. The incidence of Grade 3 and 4 proteinuria was up to 1% and up to 0.5%, respectively. Monitor renal function prior to starting everolimus tablets and annually thereafter. Monitor renal function at least every 6 months in patients who have additional risk factors for renal failure.

5.7 Risk of Impaired Wound Healing

Impaired wound healing can occur in patients who receive drugs that inhibit the VEGF

signaling pathway. Therefore, everolimus tablets have the potential to adversely affect wound healing.

Withhold everolimus tablets for at least 1 week prior to elective surgery. Do not administer for at least 2 weeks following major surgery and until adequate wound healing. The safety of resumption of treatment upon resolution of wound healing complications has not been established.

5.8 Geriatric Patients

In the randomized hormone receptor-positive, HER2-negative breast cancer study (BOLERO-2), the incidence of deaths due to any cause within 28 days of the last everolimus tablets dose was 6% in patients ≥ 65 years of age compared to 2% in patients < 65 years of age. Adverse reactions leading to permanent treatment discontinuation occurred in 33% of patients ≥ 65 years of age compared to 17% in patients < 65 years of age. Careful monitoring and appropriate dose adjustments for adverse reactions are recommended *[see Dosage and Administration (2.9), Use in Specific Populations (8.5)].*

5.9 Metabolic Disorders

Hyperglycemia, hypercholesterolemia, and hypertriglyceridemia have been reported in patients taking everolimus tablets at an incidence up to 75%, 86%, and 73%, respectively. The incidence of these Grade 3 and 4 laboratory abnormalities was up to 15% and up to 0.4%, respectively *[see Adverse Reactions (6.1)]*. In non-diabetic patients, monitor fasting serum glucose prior to starting everolimus tablets and annually thereafter. In diabetic patients, monitor fasting serum glucose more frequently as clinically indicated. Monitor lipid profile prior to starting everolimus tablets and annually thereafter. When possible, achieve optimal glucose and lipid control prior to starting everolimus tablets. For Grade 3 to 4 metabolic events, withhold or permanently discontinue everolimus tablets based on severity *[see Dosage and Administration (2.9)]*.

5.10 Myelosuppression

Anemia, lymphopenia, neutropenia, and thrombocytopenia have been reported in patients taking everolimus tablets. The incidence of these Grade 3 and 4 laboratory abnormalities was up to 16% and up to 2%, respectively *[see Adverse Reactions (6.1)].* Monitor complete blood count (CBC) prior to starting everolimus tablets every 6 months for the first year of treatment and annually thereafter. Withhold or permanently discontinue everolimus tablets based on severity *[see Dosage and Administration (2.9)].*

5.11 Risk of Infection or Reduced Immune Response with Vaccination

The safety of immunization with live vaccines during everolimus tablets therapy has not been studied. Due to the potential increased risk of infection, avoid the use of live vaccines and close contact with individuals who have received live vaccines during treatment with everolimus tablets. Due to the potential increased risk of infection or reduced immune response with vaccination, complete the recommended childhood series of vaccinations according to American Council on Immunization Practices (ACIP) guidelines prior to the start of therapy. An accelerated vaccination schedule may be appropriate.

5.12 Embryo-Fetal Toxicity

Based on animal studies and the mechanism of action, everolimus tablets can cause fetal harm when administered to a pregnant woman. In animal studies, everolimus caused embryo-fetal toxicities in rats when administered during the period of organogenesis at maternal exposures that were lower than human exposures at the clinical dose of 10 mg once daily. Advise pregnant women of the potential risk to a fetus. Advise female patients of reproductive potential to avoid becoming pregnant and to use effective contraception during treatment with everolimus tablets and for 8 weeks after the last dose. Advise male patients with female partners of reproductive potential to use effective contraception during treatment with everolimus tablets and for 4 weeks after the last dose *[see Use in Specific Populations (8.1, 8.3)].*

6 ADVERSE REACTIONS

The following serious adverse reactions are described elsewhere in the labeling:

- Non-Infectious Pneumonitis *[see Warnings and Precautions (5.1)]*.
- Infections *[see Warnings and Precautions (5.2)].*

- Severe Hypersensitivity Reactions *[see Warnings and Precautions (5.3)]* .
- Angioedema with Concomitant Use of ACE inhibitors *[see Warnings and Precautions (5.4)].*
- Stomatitis *[see Warnings and Precautions (5.5)].*
- Renal Failure *[see Warnings and Precautions (5.6)]*.
- Impaired Wound Healing *[see Warnings and Precautions (5.7)].*
- Metabolic Disorders *[see Warnings and Precautions (5.9)]*.
- Myelosuppression *[see Warnings and Precautions (5.10)].*

6.1 Clinical Trials Experience

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

Renal Cell Carcinoma (RCC)
The data described below reflect exposure to everolimus tablets (n = 274) and placebo (n = 137) in a randomized, controlled trial (RECORD-1) in patients with metastatic RCC who received prior treatment with sunitinib and/or sorafenib. The median age of patients was 61 years (range 27 to 85 years), 88% were White, and 78% were male. The median duration of blinded study treatment was 141 days (19 to 451 days) for patients receiving everolimus tablets.

The most common adverse reactions (incidence ≥ 30%) were stomatitis, infections, asthenia, fatigue, cough, and diarrhea. The most common Grade 3-4 adverse reactions (incidence ≥ 3%) were infections, dyspnea, fatigue, stomatitis, dehydration, pneumonitis, abdominal pain, and asthenia. The most common laboratory abnormalities (incidence ≥ 50%) were anemia, hypercholesterolemia, hypertriglyceridemia, hyperglycemia, lymphopenia, and increased creatinine. The most common Grade 3-4 laboratory abnormalities (incidence ≥ 3%) were lymphopenia, hyperglycemia, anemia, hypophosphatemia, and hypercholesterolemia.

Deaths due to acute respiratory failure (0.7%), infection (0.7%), and acute renal failure (0.4%) were observed on the everolimus tablets arm. The rate of adverse reactions resulting in permanent discontinuation was 14% for the everolimus tablets group. The most common adverse reactions leading to treatment discontinuation were pneumonitis and dyspnea. Infections, stomatitis, and pneumonitis were the most common reasons for treatment delay or dose reduction. The most common medical interventions required during everolimus tablets treatment were for infections, anemia, and stomatitis.

Adverse reactions reported with an incidence of ≥ 10% for patients receiving everolimus tablets vs. placebo are presented in Table 12. Laboratory abnormalities are presented in Table 13.

Table 12: Adverse Reactions Reported in ≥ 10% of Patients with RCC and at a Higher Rate in the Everolimus Tablets Arm than in the Placebo Arm in RECORD-1

	Everolimus Tablets N= 274		**Placebo N= 137**	
	ALL Grades %	**Grade 3-4 %**	**ALL Grades %**	**Grade 3-4 %**
Gastrointestinal				
Stomatitis[a]	44	4	8	0
Diarrhea	30	2[d]	7	0
Nausea	26	2[d]	19	0
Vomiting	20	2[d]	12	0
Infections[b]	37	10	18	2
General				
Asthenia	33	4	23	4
Fatigue	31	6[d]	27	4
Edema peripheral	25	<1[d]	8	<1[d]
Pyrexia	20	<1[d]	9	0
Muscosal inflammation	19	2[d]	1	0
Respiratory, thoracic and mediastinal				
Cough	30	<1[d]	16	0
Dyspnea	24	8	15	3[d]
Epistaxis	18	0	0	0
Pneumonitis[c]	14	4[d]	0	0
Skin and subcutaneous tissue				

Rash	29	1[d]	7	0
Pruritus	14	<1[d]	7	0
Dry skin	13	<1[d]	5	0
Metabolism and nutrition				
Anorexia	25	2[d]	14	<1[d]
Nervous system				
Headache	19	1	9	<1[d]
Dysgeusia	10	0	2	0
Musculoskeletal and connective tissue				
Pain in extremity	10	1[d]	7	0

Grading according to NCI CTCAE Version 3.0
[a]Stomatitis (including aphthous stomatitis), and mouth and tongue ulceration.
[b]Includes all reported infections including, but not limited to, respiratory tract (upper and lower) infections, urinary tract infections, and skin infections.
[c]Includes pneumonitis, interstitial lung disease, lung infiltration, pulmonary alveolar hemorrhage, pulmonary toxicity, and alveolitis.
[d]No Grade 4 adverse reactions were reported.

Other notable adverse reactions occurring more frequently with everolimus tablets than with placebo, but with an incidence of < 10% include:
Gastrointestinal: Abdominal pain (9%), dry mouth (8%), hemorrhoids (5%), dysphagia (4%)
General: Weight loss (9%), chest pain (5%), chills (4%), impaired wound healing (< 1%)
Respiratory, thoracic and mediastinal: Pleural effusion (7%), pharyngolaryngeal pain (4%), rhinorrhea (3%)
Skin and subcutaneous tissue: Hand-foot syndrome (reported as palmar-plantar erythrodysesthesia syndrome) (5%), nail disorder (5%), erythema (4%), onychoclasis (4%), skin lesion (4%), acneiform dermatitis (3%), angioedema (< 1%)
Metabolism and nutrition: Exacerbation of pre-existing diabetes mellitus (2%), new onset of diabetes mellitus (< 1%)
Psychiatric: Insomnia (9%)
Nervous system: Dizziness (7%), paresthesia (5%)
Ocular: Eyelid edema (4%), conjunctivitis (2%)
Vascular: Hypertension (4%), deep vein thrombosis (< 1%)
Renal and urinary: Renal failure (3%)
Cardiac: Tachycardia (3%), congestive cardiac failure (1%)
Musculoskeletal and connective tissue: Jaw pain (3%)
Hematologic: Hemorrhage (3%)

Table 13: Selected Laboratory Abnormalities Reported in Patients with RCC at a Higher Rate in the Everolimus Tablets Arm than the Placebo Arm in RECORD-1

Laboratory Parameter	Everolimus Tablets N= 274		Placebo N= 137	
	ALL Grades %	Grade 3-4 %	ALL Grades %	Grade 3-4 %
Hemetology[a]				
Anemia	92	13	79	6
Lymphopenia	51	18	28	5
Thrombocytopenia	23	1[b]	2	<1
Neutropenia	14	<1	4	0
Chemistry				
Hypercholesterolemia	77	4[b]	35	0
Hypertriglyceridemia	73	<1[b]	34	0
Hyperglycemia	57	16	25	2[b]
Increased creatinine increased	50	2b	34	0
Hypophosphatemia	37	6[b]	8	0
Increased AST	25	1	7	0
Increased ALT	21	1[b]	4	0
Hyperbilirubinemia	3	1	2	0

Grading according to NCI CTCAE Version 3.0
[a]Reflects corresponding adverse drug reaction reports of anemia, leukopenia, lymphopenia, neutropenia, and thrombocytopenia (collectively pancytopenia), which occurred at lower frequency.
[b]No Grade 4 laboratory abnormalities were reported.

Tuberous Sclerosis Complex (TSC)-Associated Renal Angiomyolipoma

The data described below are based on a randomized (2:1), double-blind, placebo-

controlled trial (EXIST-2) of everolimus tablets in 118 patients with renal angiomyolipoma as a feature of TSC (n = 113) or sporadic lymphangioleiomyomatosis (n = 5). The median age of patients was 31 years (18 to 61 years), 89% were White, and 34% were male. The median duration of blinded study treatment was 48 weeks (2 to 115 weeks) for patients receiving everolimus tablets.

The most common adverse reaction reported for everolimus tablets (incidence ≥ 30%) was stomatitis. The most common Grade 3-4 adverse reactions (incidence ≥ 2%) were stomatitis and amenorrhea. The most common laboratory abnormalities (incidence ≥ 50%) were hypercholesterolemia, hypertriglyceridemia, and anemia. The most common Grade 3-4 laboratory abnormality (incidence ≥ 3%) was hypophosphatemia.

The rate of adverse reactions resulting in permanent discontinuation was 3.8% in the everolimus tablets-treated patients. Adverse reactions leading to permanent discontinuation in the everolimus tablets arm were hypersensitivity/angioedema/bronchospasm, convulsion, and hypophosphatemia. Dose adjustments (interruptions or reductions) due to adverse reactions occurred in 52% of everolimus tablets-treated patients. The most common adverse reaction leading to everolimus tablets dose adjustment was stomatitis.

Adverse reactions reported with an incidence of ≥ 10% for patients receiving everolimus tablets and occurring more frequently with everolimus tablets than with placebo are presented in Table 14. Laboratory abnormalities are presented in Table 15.

Table 14: Adverse Reactions Reported In ≥ 10% Of Everolimus Tablets-Treated Patients With TSC-Associated Renal Angiomyolipoma In EXIST-2

	Everolimus Tablets N= 79		**Placebo N= 39**	
	ALL Grades %	**Grade 3-4 %**	**ALL Grades %**	**Grade 3-4 %**
Gastrointestinal				
Stomatitis[a]	78	6[b]	23	0
Vomiting	15	0	5	0
Diarrhea	14	0	5	0
General				
Peripheral edema	13	0	8	0
Infections				
Upper respiratory tract infection	11	0	5	0
Musculoskeletal and connective tissue				
Arthralgia	13	0	5	0
Respiratory, thoratic and mediastinal				
Cough	20	0	13	0
Skin and subcutaneous tissue				
Acne	22	0	5	0

Grading according to NCI CTCAE version 3.0
[a]Includes stomatitis, aphthous stomatitis, mouth ulceration, ginginal pain, glossitis, and glossodynia.
[b]No grade 4 adverse reactions were reported.

Amenorrhea occurred in 15% of everolimus tablets-treated females (8 of 52). Other adverse reactions involving the female reproductive system were menorrhagia (10%), menstrual irregularities (10%), and vaginal hemorrhage (8%).

The following additional adverse reactions occurred in less than 10% of everolimus tablets-treated patients: epistaxis (9%), decreased appetite (6%), otitis media (6%), depression (5%), abnormal taste (5%), increased blood luteinizing hormone (LH) levels (4%), increased blood follicle stimulating hormone (FSH) levels (3%), hypersensitivity (3%), ovarian cyst (3%), pneumonitis (1%), and angioedema (1%).

Updated safety information from 112 patients treated with everolimus tablets for a median duration of 3.9 years identified the following additional adverse reactions and selected laboratory abnormalities: increased partial thromboplastin time (63%), increased prothrombin time (40%), decreased fibrinogen (38%), urinary tract infection (31%), proteinuria (18%), abdominal pain (16%), pruritus (12%), gastroenteritis (12%), myalgia (11%), and pneumonia (10%).

Table 15: Selected Laboratory Abnormalities Reported in Everolimus Tablets-Treated Patients with TSC-Associated Renal Angiomyolipoma in EXIST-2

	Everolimus Tablets N= 79		Placebo N= 39	
	ALL Grades %	Grade 3-4 %	ALL Grades %	Grade 3-4 %
Hematology				
Anemia	61	0	49	0
Leukopenia	37	0	21	0
Neutropenia	25	1	26	0
Lymphopenia	20	1[a]	8	0
Thrombocytopeina	19	0	3	0
Chemistry				
Hypercholesterolemia	85	1[a]	46	0
Hypertriglyceridemia	52	0	10	0
Hypophosphatemia	49	5[a]	15	0
Increased alkaline phosphatase	32	1[a]	10	
Increased AST	23	1[a]	8	0
Increased ALT	20	1[a]	15	0
Hyperglycemia (fasting)	14	0	8	0

Grading according to NCI CTCAE Version 3.0
[a]No Grade 4 laboratory abnormalities were reported.

Updated safety information from 112 patients treated with everolimus tablets for a median duration of 3.9 years identified the following additional adverse reactions and selected laboratory abnormalities: increased partial thromboplastin time (63%), increased prothrombin time (40%), decreased fibrinogen (38%), urinary tract infection (31%), proteinuria (18%), abdominal pain (16%), pruritus (12%), gastroenteritis (12%), myalgia (11%), and pneumonia (10%).

TSC-Associated Subependymal Giant Cell Astrocytoma (SEGA)
The data described below are based on a randomized (2:1), double-blind, placebo-controlled trial (EXIST-1) of everolimus tablets in 117 patients with SEGA and TSC. The median age of patients was 9.5 years (0.8 to 26 years), 93% were White, and 57% were male. The median duration of blinded study treatment was 52 weeks (24 to 89 weeks) for patients receiving everolimus tablets.

The most common adverse reactions reported for everolimus tablets (incidence ≥ 30%) were stomatitis and respiratory tract infection. The most common Grade 3-4 adverse reactions (incidence ≥ 2%) were stomatitis, pyrexia, pneumonia, gastroenteritis, aggression, agitation, and amenorrhea. The most common laboratory abnormalities (incidence ≥ 50%) were hypercholesterolemia and elevated partial thromboplastin time. The most common Grade 3-4 laboratory abnormality (incidence ≥ 3%) was neutropenia.

There were no adverse reactions resulting in permanent discontinuation. Dose adjustments (interruptions or reductions) due to adverse reactions occurred in 55% of everolimus tablets-treated patients. The most common adverse reaction leading to everolimus tablets dose adjustment was stomatitis.

Adverse reactions reported with an incidence of ≥ 10% for patients receiving everolimus tablets and occurring more frequently with everolimus tablets than with placebo are reported in Table 16. Laboratory abnormalities are presented in Table 17.

Table 16: Adverse Reactions Reported in ≥ 10% of Everolimus Tablets - Treated Patients with TSC-Associated SEGA in EXIST-1

	Everolimus Tablets N= 79		Placebo N= 39	
	ALL Grades %	Grade 3-4 %	ALL Grades %	Grade 3-4 %
Gastrointestinal				
Stomatitis[a]	62	9[f]	26	3[f]
Vomiting	22	1[f]	13	0
Diarrhea	17	0	5	0
Constipation	10	0	3	0

Infections				
Respiratory tract infection[b]	31	3	23	0
Gastroenteritis[c]	10	5	3	0
Pharyngitis streptococcal	10	0	3	0
General				
Pyrexia	23	6[f]	18	3[f]
Fatigue	14	0	3	0
Psychiatric				
Anxiety aggression or other behavioral disturbance[d]	21	5[f]	3	0
Skin and subcutaneous tissue				
Rash[e]	21	0	8	0
Acne	10	0	5	0

Grading according to NCI CTCAE Version 3.0
[a] Includes mouth ulceration, stomatitis, and lip ulceration
[b] Includes respiratory tract infection, upper respiratory tract infection, and respiratory tract infection viral
[c] Includes gastroenteritis, viral, and gastrointestinal infection
[d] Includes agitation, anxiety, painc attack, aggression, abnormal behavior, and obsessive compulsive disorder
[e] Includes rash, rash generalized, rash macular, rash maculo-papular, rash popular, dermatitis allergic, and urticaria
[f] No Grade 4 adverse reactions were reported.

Amenorrhea occurred in 17% of everolimus tablets-treated females aged 10 to 55 years (3 of 18). For this same group of everolimus tablets-treated females, the following menstrual abnormalities were reported: dysmenorrhea (6%), menorrhagia (6%), metrorrhagia (6%), and unspecified menstrual irregularity (6%).

The following additional adverse reactions occurred in less than 10% of everolimus tablets-treated patients: nausea (8%), pain in extremity (8%), insomnia (6%), pneumonia (6%), epistaxis (5%), hypersensitivity (3%), inreased blood luteinizing hormone (LH) levels (1%), and pneumonitis (1%).

Amenorrhea occurred in 17% of everolimus tablets-treated females aged 10 to 55 years (3 of 18). For this same group of everolimus tablets-treated females, the following menstrual abnormalities were reported: dysmenorrhea (6%), menorrhagia (6%), metrorrhagia (6%), and unspecified menstrual irregularity (6%).

The following additional adverse reactions occurred in less than 10% of everolimus tablets-treated patients: nausea (8%), pain in extremity (8%), insomnia (6%), pneumonia (6%), epistaxis (5%), hypersensitivity (3%), inreased blood luteinizing hormone (LH) levels (1%), and pneumonitis (1%).

Table 17: Selected Laboratory Abnormalities reported in everolimus Tablets-Treated patients with TSC-Associated SEGA in EXIST-1

	Everolimus Tablets N= 78		**Placebo N= 39**	
	ALL Grades %	**Grade 3-4 %**	**ALL Grades %**	**Grade 3-4 %**
Hematology				
Elevated partial thromboplastin time	72	3[a]	44	5
Neutropenia	46	9[a]	41	3
Anemia	41	0	21	0
Chemistry				
Hypercholesterolemia	81	0	39	0
Elevated AST	33	0	0	0

Hypertriglyceridemia	27	0	15	0
Elevated ALT	18	0	3	0
Hypophosphatemia	9	1[a]	3	0

Grading according to NCI CTCAE Version 3.0
[a] No Grade 4 laboratory abnormalities were reported.

Updated safety information from 111 patients treated with everolimus tablets for a median duration of 47 months identified the following additional notable adverse reactions and selected laboratory abnormalities: decreased appetite (14%), hyperglycemia (13%), hypertension (11%), urinary tract infection (9%), decreased fibrinogen (8%), cellulitis (6%), abdominal pain (5%), decreased weight (5%), elevated creatinine (5%), and azoospermia (1%).

6.2 Postmarketing Experience

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

- *Blood and lymphatic disorders*: Thrombotic microangiopathy
- *Cardiac*: Cardiac failure with some cases reported with pulmonary hypertension (including pulmonary arterial hypertension) as a secondary event
- *Gastrointestinal*: Acute pancreatitis
- *Hepatobiliary*: Cholecystitis and cholelithiasis
- *Infections:* Sepsis and septic shock
- *Nervous System*: Reflex sympathetic dystrophy
- *Vascular:* Arterial thrombotic events

7 DRUG INTERACTIONS

7.1 Effect of Other Drugs on Everolimus Tablets

Inhibitors

Avoid the concomitant use of P-gp and strong CYP3A4 inhibitors *[see Dosage and Administration (2.11), Clinical Pharmacology (12.3)]*.

Reduce the dose for patients taking everolimus tablets with a P-gp and moderate CYP3A4 inhibitor as recommended *[see Dosage and Administration (2.11), Clinical Pharmacology (12.3)].*

Inducers
Increase the dose for patients taking everolimus tablets with a P-gp and strong CYP3A4 inducer as recommended *[see Dosage and Administration (2.12), Clinical Pharmacology (12.3)].*

7.2 Effects of Combination Use of Angiotensin-Converting Enzyme (ACE) Inhibitors

Patients taking concomitant ACE inhibitors with everolimus tablets may be at increased risk for angioedema. Avoid the concomitant use of ACE inhibitors with everolimus tablets *[see Warnings and Precautions (5.4)].*

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Based on animal studies and
the mechanism of action *[see Clinical Pharmacology (12.1)]*, everolimus tablets can cause fetal harm when administered to a pregnant woman. There are limited case

reports of everolimus tablets use in pregnant women; however, these reports are not sufficient to inform about risks of birth defects or miscarriage. In animal studies, everolimus caused embryo-fetal toxicities in rats when administered during the period of organogenesis at maternal exposures that were lower than human exposures at the recommended dose of everolimus tablets 10 mg orally once daily *[see Data]*. Advise pregnant women of the potential risk to the fetus.

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

Data

Animal Data

In animal reproductive studies, oral administration of everolimus to female rats before mating and through organogenesis induced embryo-fetal toxicities, including increased resorption, pre-implantation and post-implantation loss, decreased numbers of live fetuses, malformation (e.g., sternal cleft), and retarded skeletal development. These effects occurred in the absence of maternal toxicities. Embryo-fetal toxicities in rats occurred at doses ≥ 0.1 mg/kg (0.6 mg/m^2) with resulting exposures of approximately 4% of the human exposure at the recommended dose of everolimus tablets 10 mg orally once daily based on area under the curve (AUC). In rabbits, embryo-toxicity evident as an increase in resorptions occurred at an oral dose of 0.8 mg/kg (9.6 mg/m^2), approximately 1.6 times the recommended dose of everolimus tablets 10 mg orally once daily or the median dose administered to patients with tuberous sclerosis complex (TSC)-associated subependymal giant cell astrocytoma (SEGA), based on BSA. The effect in rabbits occurred in the presence of maternal toxicities.

In a pre- and post-natal development study in rats, animals were dosed from implantation through lactation. At the dose of 0.1 mg/kg (0.6 mg/m^2), there were no adverse effects on delivery and lactation or signs of maternal toxicity; however, there were reductions in body weight (up to 9% reduction from the control) and in survival of offspring (~5% died or missing). There were no drug-related effects on the developmental parameters (morphological development, motor activity, learning, or fertility assessment) in the offspring.

8.2 Lactation

Risk Summary

There are no data on the presence of everolimus or its metabolites in human milk, the effects of everolimus on the breastfed infant or on milk production. Everolimus and its metabolites passed into the milk of lactating rats at a concentration 3.5 times higher than in maternal serum. Because of the potential for serious adverse reactions in breastfed infants from everolimus, advise women not to breastfeed during treatment with everolimus tablets and for 2 weeks after the last dose.

8.3 Females and Males of Reproductive Potential

Pregnancy Testing

Verify the pregnancy status of females of reproductive potential prior to starting everolimus tablets *[see Use in Specific Population (8.1)].*

Contraception

Everolimus tablets can cause fetal harm when administered to pregnant women *[see Use in Specific Populations (8.1)].*

Females: Advise female patients of reproductive potential to use effective contraception during treatment with everolimus tablets and for 8 weeks after the last dose.

Males: Advise male patients with female partners of reproductive potential to use effective contraception during treatment with everolimus tablets and for 4 weeks after the last dose.

Infertility

Females: Menstrual irregularities, secondary amenorrhea, and increases in luteinizing hormone (LH) and follicle stimulating hormone (FSH) occurred in female patients taking everolimus tablets. Based on these findings, everolimus tablets may impair fertility in female patients *[see Adverse Reactions (6.1), Nonclinical Toxicology (13.1)]*.

Males: Cases of reversible azoospermia have been reported in male patients taking everolimus tablets. In male rats, sperm motility, sperm count, plasma testosterone levels and fertility were diminished at AUC similar to those of the clinical dose of everolimus tablets 10 mg orally once daily. Based on these findings, everolimus tablets may impair fertility in male patients *[see Nonclinical Toxicology (13.1)].*

8.4 Pediatric Use

TSC-Associated SEGA

The safety and effectiveness of everolimus tablets have been established in pediatric patients age 1 year and older with TSC-associated SEGA that requires therapeutic intervention but cannot be curatively resected. Use of everolimus tablets for this indication is supported by evidence from a randomized, double-blind, placebo-controlled trial in adult and pediatric patients (EXIST-1); an open-label, single-arm trial in adult and pediatric patients (Study 2485); and additional pharmacokinetic data in pediatric patients *[see Adverse Reactions (6.1), Clinical Pharmacology (12.3), Clinical Studies (14.5)]*. The safety and effectiveness of everolimus tablets have not been established in pediatric patients less than 1 year of age with TSC-associated SEGA.

In EXIST-1, the incidence of infections and serious infections were reported at a higher frequency in patients < 6 years of age. Ninety-six percent of 23 everolimus tablets-treated patients < 6 years had at least one infection compared to 67% of 55 everolimus tablets-treated patients ≥ 6 years. Thirty-five percent of 23 everolimus tablets-treated patients < 6 years of age had at least 1 serious infection compared to 7% of 55 everolimus tablets-treated patients ≥ 6 years.

Although a conclusive determination cannot be made due to the limited number of patients and lack of a comparator arm in the open label follow-up periods of EXIST-1 and Study 2485, everolimus tablets did not appear to adversely impact growth and pubertal development in the 115 pediatric patients treated with everolimus tablets for a median duration of 4.1 years.

Other Indications
The safety and effectiveness of everolimus tablets in pediatric patients have not been established in:

- Renal cell carcinoma (RCC)
- TSC-associated renal angiomyolipoma

8.5 Geriatric Use

In BOLERO-2, 40% of patients with breast cancer treated with everolimus tablets were ≥ 65 years of age, while 15% were ≥ 75 years of age. No overall differences in effectiveness were observed between elderly and younger patients. The incidence of deaths due to any cause within 28 days of the last everolimus tablets dose was 6% in patients ≥ 65 years of age compared to 2% in patients < 65 years of age. Adverse reactions leading to permanent treatment discontinuation occurred in 33% of patients ≥ 65 years of age compared to 17% in patients < 65 years of age.

In RECORD-1, 41% of patients with renal cell carcinoma treated with everolimus tablets were ≥ 65 years of age, while 7% were ≥ 75 years of age. In RADIANT-3, 30% of patients with PNET treated with everolimus tablets were ≥ 65 years of age, while 7% were ≥ 75 years of age. No overall differences in safety or effectiveness were observed between elderly and younger patients.

8.6 Hepatic Impairment

Everolimus tablets exposure may increase in patients with hepatic impairment *[see Clinical Pharmacology (12.3)]*.

For patients with RCC, and TSC-associated renal angiomyolipoma who have hepatic impairment, reduce the everolimus tablets dose as recommended *[see Dosage and Administration (2.10)]*.

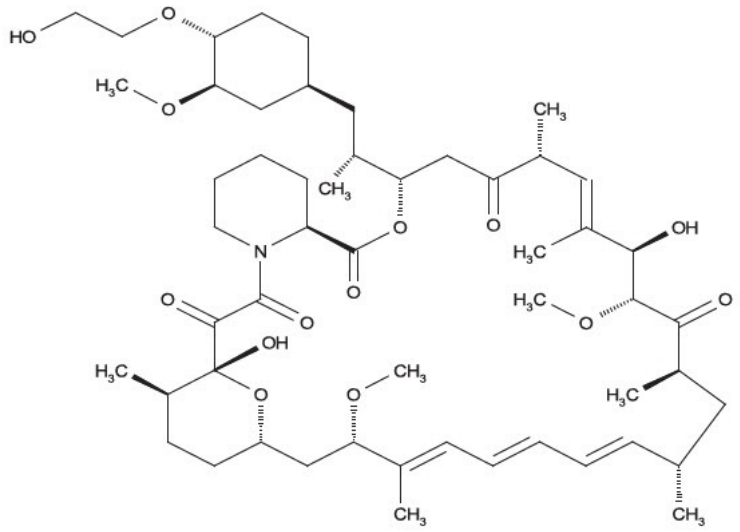
For patients with TSC-associated SEGA who have severe hepatic impairment (Child-Pugh C), reduce the starting dose of everolimus tablets as recommended and adjust the dose based on everolimus trough concentrations *[see Dosage and Administration (2.8, 2.10)]*.

11 DESCRIPTION

Everolimus tablets are kinase inhibitors.

The chemical name of everolimus is (1R,9S,12S,15R,16E,18R,19R,21R,23S,24E,26E,28E,30S,32S,35R)-1,18-dihydroxy-12-{(1R)-2-[(1S,3R,4R)-4-(2-hydroxyethoxy)-3-methoxycyclohexyl]-1-methylethyl}-19,30-dimethoxy-15,17,21,23,29,35-hexamethyl-11,36-dioxa-4-aza-tricyclo[30.3.1.$0^{4,9}$]hexatriaconta-16,24,26,28-tetraene-2,3,10,14,20-pentaone.

The molecular formula is $C_{53}H_{83}NO_{14}$ and the molecular weight is 958.2 g/mol. The structural formula is:
Everolimus tablets are supplied for oral administration and contain 2.5 mg, 5 mg, 7.5 mg and 10 mg of everolimus. The tablets also contain anhydrous lactose, butylated hydroxytoluene, crospovidone, hypromellose, and magnesium stearate as inactive ingredients.



12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Everolimus is an inhibitor of mammalian target of rapamycin (mTOR), a serine-threonine kinase, downstream of the PI3K/AKT pathway. The mTOR pathway is dysregulated in several human cancers and in tuberous sclerosis complex (TSC). Everolimus binds to an intracellular protein, FKBP-12, resulting in an inhibitory complex formation with mTOR complex 1 (mTORC1) and thus inhibition of mTOR kinase activity. Everolimus reduced

the activity of S6 ribosomal protein kinase (S6K1) and eukaryotic initiation factor 4E-binding protein (4E-BP1), downstream effectors of mTOR, involved in protein synthesis. S6K1 is a substrate of mTORC1 and phosphorylates the activation domain 1 of the estrogen receptor which results in ligand-independent activation of the receptor. In addition, everolimus inhibited the expression of hypoxia-inducible factor (e.g., HIF-1) and reduced the expression of vascular endothelial growth factor (VEGF). Inhibition of mTOR by everolimus has been shown to reduce cell proliferation, angiogenesis, and glucose uptake in *in vitro* and/or *in vivo* studies.

Constitutive activation of the PI3K/Akt/mTOR pathway can contribute to endocrine resistance in breast cancer. *In vitro* studies show that estrogen-dependent and HER2+ breast cancer cells are sensitive to the inhibitory effects of everolimus, and that combination treatment with everolimus and Akt, HER2, or aromatase inhibitors enhances the anti-tumor activity of everolimus in a synergistic manner.

Two regulators of mTORC1 signaling are the oncogene suppressors tuberin-sclerosis complexes 1 and 2 (TSC1, TSC2). Loss or inactivation of either TSC1 or TSC2 leads to activation of downstream signaling. In TSC, a genetic disorder, inactivating mutations in either the TSC1 or the TSC2 gene lead to hamartoma formation throughout the body as well as seizures and epileptogenesis. Overactivation of mTOR results in neuronal dysplasia, aberrant axonogenesis and dendrite formation, increased excitatory synaptic currents, reduced myelination, and disruption of the cortical laminar structure causing abnormalities in neuronal development and function. Treatment with an mTOR inhibitor in animal models of mTOR dysregulation in the brain resulted in seizure suppression, prevention of the development of new-onset seizures, and prevention of premature death.

12.2 Pharmacodynamics

Exposure-Response Relationship

In patients with TSC-associated subependymal giant cell astrocytoma (SEGA), the magnitude of the reduction in SEGA volume was correlated with the everolimus trough concentration.

Cardiac Electrophysiology
In a randomized, placebo-controlled, cross-over study, 59 healthy subjects were administered a single oral dose of everolimus tablets (20 mg and 50 mg) and placebo. Everolimus tablets at single doses up to 50 mg did not prolong the QT/QTc interval.

12.3 Pharmacokinetics

Absorption

After administration of everolimus tablets in patients with advanced solid tumors, peak everolimus concentrations are reached 1 to 2 hours after administration of oral doses ranging from 5 mg to 70 mg. Following single doses, C_{max} is dose-proportional with daily dosing between 5 mg and 10 mg. With single doses of 20 mg and higher, the increase in C_{max} is less than dose-proportional, however AUC shows dose-proportionality over the 5 mg to 70 mg dose range. Steady-state was achieved within 2 weeks following once-daily dosing.

In patients with TSC-associated SEGA, everolimus C_{min} was approximately dose-proportional within the dose range from 1.35 mg/m^2 to 14.4 mg/m^2.

Effect of Food: In healthy subjects, a high-fat meal (containing approximately 1000 calories and 55 grams of fat) reduced systemic exposure to everolimus tablets 10 mg (as measured by AUC) by 22% and the peak blood concentration C_{max} by 54%. Light-fat meals (containing approximately 500 calories and 20 grams of fat) reduced AUC by 32% and C_{max} by 42%.

Relative Bioavailability: The AUC_{inf} of everolimus was equivalent between everolimus tablets for oral suspension and everolimus tablets; the C_{max} of everolimus in the everolimus tablets for oral suspension dosage form was 20% to 36% lower than that of everolimus tablets. The predicted trough concentrations at steady-state were similar after daily administration.

Distribution
The blood-to-plasma ratio of everolimus, which is concentration-dependent over the range of 5 to 5000 ng/mL, is 17% to 73%. The amount of everolimus confined to the

plasma is approximately 20% at blood concentrations observed in cancer patients given everolimus tablets 10 mg orally once daily. Plasma protein binding is approximately 74% both in healthy subjects and in patients with moderate hepatic impairment.

Elimination

The mean elimination half-life of everolimus is approximately 30 hours.
Metabolism: Everolimus is a substrate of CYP3A4. Following oral administration, everolimus is the main circulating component in human blood. Six main metabolites of everolimus have been detected in human blood, including three monohydroxylated metabolites, two hydrolytic ring-opened products, and a phosphatidylcholine conjugate of everolimus. These metabolites were also identified in animal species used in toxicity studies, and showed approximately 100-times less activity than everolimus itself.

Excretion: No specific elimination studies have been undertaken in cancer patients. Following the administration of a 3 mg single dose of radiolabeled everolimus in patients who were receiving cyclosporine, 80% of the radioactivity was recovered from the feces, while 5% was excreted in the urine. The parent substance was not detected in urine or feces.

Specific Populations

No relationship was apparent between oral clearance and age or sex in patients with cancer.

Patients with Renal Impairment: No significant influence of creatinine clearance (25 to 178 mL/min) was detected on oral clearance (CL/F) of everolimus.

Patients with Hepatic Impairment: Compared to normal subjects, there was a 1.8-fold, 3.2-fold, and 3.6-fold increase in AUC for subjects with mild (Child-Pugh class A), moderate (Child-Pugh class B), and severe (Child-Pugh class C) hepatic impairment, respectively. In another study, the average AUC of everolimus in subjects with moderate hepatic impairment (Child-Pugh class B) was twice that found in subjects with normal hepatic function *[see Dosage and Administration (2.10), Use in Specific Populations (8.6)].*

Pediatric Patients: In patients with TSC-associated SEGA, the mean C_{min} values normalized to mg/m^2 dose in pediatric patients (< 18 years of age) were lower than those observed in adults, suggesting that everolimus clearance adjusted to BSA was higher in pediatric patients as compared to adults.

Race or Ethnicity: Based on a cross-study comparison, Japanese patients had on average exposures that were higher than non-Japanese patients receiving the same dose. Oral clearance (CL/F) is on average 20% higher in Black patients than in White patients.

Drug Interaction Studies

Effect of CYP3A4 and P-glycoprotein (P-gp) Inhibitors on Everolimus: Everolimus exposure increased when everolimus tablets were coadministered with:

- ketoconazole (a P-gp and strong CYP3A4 inhibitor) - C_{max} and AUC increased by 3.9- and 15-fold, respectively.
- erythromycin (a P-gp and moderate CYP3A4 inhibitor) - C_{max} and AUC increased by 2- and 4.4-fold, respectively.
- verapamil (a P-gp and moderate CYP3A4 inhibitor) - C_{max} and AUC increased by 2.3- and 3.5-fold, respectively.

Effect of CYP3A4 and P-gp Inducers on Everolimus: The coadministration of everolimus tablets with rifampin, a P-gp and strong inducer of CYP3A4, decreased everolimus AUC by 63% and C_{max} by 58% compared to everolimus tablets alone *[see Dosage and Administration (2.12)].*

Effect of Everolimus on CYP3A4 Substrates: No clinically significant pharmacokinetic interactions were observed between everolimus tablets and the HMG-CoA reductase inhibitors atorvastatin (a CYP3A4 substrate), pravastatin (a non-CYP3A4 substrate), and simvastatin (a CYP3A4 substrate).

The coadministration of an oral dose of midazolam (sensitive CYP3A4 substrate) with

everolimus tablets resulted in a 25% increase in midazolam C_{max} and a 30% increase in midazolam $AUC_{0\text{-}inf}$.

The coadministration of everolimus tablets with exemestane increased exemestane C_{min} by 45% and C_{2h} by 64%; however, the corresponding estradiol levels at steady state (4 weeks) were not different between the 2 treatment arms. No increase in adverse reactions related to exemestane was observed in patients with hormone receptor-positive, HER2-negative advanced breast cancer receiving the combination.

The coadministration of everolimus tablets with long acting octreotide increased octreotide Cmin by approximately 50%.

Effect of Everolimus on Antiepileptic drugs (AEDs): Everolimus increased pre-dose concentrations of the carbamazepine, clobazam, oxcarbazepine, and clobazam's metabolite N-desmethylclobazam by about 10%. Everolimus had no impact on pre-dose concentrations of AEDs that are substrates of CYP3A4 (e.g., clonazepam and zonisamide) or other AEDs, including valproic acid, topiramate, phenobarbital, and phenytoin.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Administration of everolimus for up to 2 years did not indicate oncogenic potential in mice and rats up to the highest doses tested (0.9 mg/kg) corresponding respectively to 3.9 and 0.2 times the estimated human exposure based on AUC at the recommended dose of everolimus tablets 10 mg orally once daily.

Everolimus was not genotoxic in a battery of in vitro assays (Ames mutation test in Salmonella, mutation test in L5178Y mouse lymphoma cells, and chromosome aberration assay in V79 Chinese hamster cells). Everolimus was not genotoxic in an in vivo mouse bone marrow micronucleus test at doses up to 500 mg/kg/day (1500 mg/m^2/day, approximately 255-fold the recommended dose of everolimus tablets 10 mg orally once daily, and approximately 200-fold the median dose administered to patients with TSC-associated SEGA, based on the BSA), administered as 2 doses, 24 hours apart.

Based on non-clinical findings, everolimus tablets may impair male fertility. In a 13-week male fertility study in rats, testicular morphology was affected at doses of 0.5 mg/kg and above. Sperm motility, sperm count, and plasma testosterone levels were diminished in rats treated with 5 mg/kg. The exposures at these doses (52 ng•hr/mL and 414 ng•hr/mL, respectively) were within the range of human exposure at the recommended dose of everolimus tablets 10 mg orally once daily (560 ng•hr/mL) and resulted in infertility in the rats at 5 mg/kg. Effects on male fertility occurred at $AUC_{0\text{-}24h}$ values 10% to 81% lower than human exposure at the recommended dose of everolimus tablets 10 mg orally once daily. After a 10-13 week non-treatment period, the fertility index increased from zero (infertility) to 60%.

Oral doses of everolimus in female rats at doses ≥ 0.1 mg/kg (approximately 4% the human exposure based on AUC at the recommended dose of everolimus tablets 10 mg orally once daily) resulted in increased incidence of pre-implantation loss, suggesting that the drug may reduce female fertility.

13.2 Animal Pharmacology and/OR Toxicology

In juvenile rat toxicity studies, dose-related delayed attainment of developmental landmarks including delayed eye-opening, delayed reproductive development in males and females and increased latency time during the learning and memory phases were observed at doses as low as 0.15 mg/kg/day.

14 CLINICAL STUDIES

14.3 Renal Cell Carcinoma (RCC)

An international, multi-center, randomized, double-blind trial (RECORD-1, NCT00410124) comparing everolimus tablets 10 mg once daily and placebo, both in conjunction with BSC, was conducted in patients with metastatic RCC whose disease had progressed despite prior treatment with sunitinib, sorafenib, or both sequentially. Prior therapy with bevacizumab, interleukin 2, or interferon-α was also permitted. Randomization was stratified according to prognostic score and prior anticancer therapy. The major efficacy

outcome measure for the trial was PFS evaluated by RECIST, based on a blinded, independent, central radiologic review. After documented radiological progression, patients randomized to placebo could receive open-label everolimus tablets. Other outcome measures included OS.

In total, 416 patients were randomized 2:1 to receive everolimus tablets (n = 277) or placebo (n = 139). Demographics were well balanced between the arms (median age 61 years; 77% male, 88% White, 74% received prior sunitinib or sorafenib, and 26% received both sequentially).

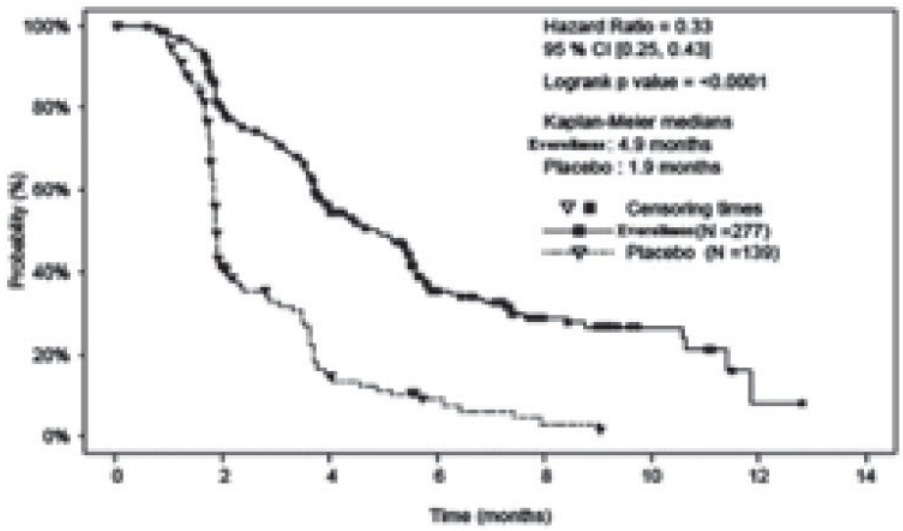
Everolimus tablets were superior to placebo for PFS (Table 23 and Figure 4). The treatment effect was similar across prognostic scores and prior sorafenib and/or sunitinib. Final OS results yield a hazard ratio of 0.90 (95% CI: 0.71, 1.14), with no statistically significant difference between the arms. Planned cross-over from placebo due to disease progression to open-label everolimus tablets occurred in 80% of the 139 patients and may have confounded the OS benefit.

Table 23: Progression-Free Survival and Objective Response Rate by Central Radiologic Review in RCC in RECORD-1

	Everolimus N=277	**Placebo N=139**	**Hazard Ratio (95% CI)**	**p-value[a]**
Median Progression-free Survival (95% CI)	4.9 months (4.0 to 5.5)	1.9 months (1.8 to 1.9)	0.33 (0.25 to 0.43)	<0.0001
Objective Response Rate	2%	0%	n/a[b]	n/a[b]

[a] Log-rank test stratified by prognostic score.
[b] Not applicable.

Figure 4: Kaplan-Meier Curves for Progression-Free Survival in RCC in RECORD-1



14.4 Tuberous Sclerosis Complex (TSC)-Associated Renal Angiomyolipoma

A randomized (2:1), double-blind, placebo-controlled trial (EXIST-2, NCT00790400) of everolimus tablets was conducted in 118 patients with renal angiomyolipoma as a feature of TSC (n = 113) or sporadic lymphangioleiomyomatosis (n = 5). The key eligibility requirements for this trial were at least one angiomyolipoma of ≥ 3 cm in longest diameter on CT/MRI based on local radiology assessment, no immediate indication for surgery, and age ≥ 18 years. Patients received everolimus tablets 10 mg or matching placebo orally once daily until disease progression or unacceptable toxicity. CT or MRI scans for disease assessment were obtained at baseline, 12, 24, and 48 weeks and annually thereafter. Clinical and photographic assessment of skin lesions were conducted at baseline and every 12 weeks thereafter until treatment

discontinuation. The major efficacy outcome measure was angiomyolipoma response rate based on independent central radiology review, which was defined as a ≥ 50% reduction in angiomyolipoma volume, absence of new angiomyolipoma lesion ≥ 1 cm, absence of kidney volume increase ≥ 20%, and no angiomyolipoma related bleeding of ≥ Grade 2. Key supportive efficacy outcome measures were time to angiomyolipoma progression and skin lesion response rate. The primary analyses of efficacy outcome measures were limited to the blinded treatment period and conducted 6 months after the last patient was randomized. The comparative angiomyolipoma response rate analysis was stratified by use of enzyme-inducing antiepileptic drugs (EIAEDs) at randomization (yes vs. no).

Of the 118 patients enrolled, 79 were randomized to everolimus tablets and 39 to placebo. The median age was 31 years (18 to 61 years), 34% were male, and 89% were White. At baseline, 17% of patients were receiving EIAEDs. On central radiology review at baseline, 92% of patients had at least 1 angiomyolipoma of ≥ 3 cm in longest diameter, 29% had angiomyolipomas ≥ 8 cm, 78% had bilateral angiomyolipomas, and 97% had skin lesions. The median values for the sum of all target renal angiomyolipoma lesions at baseline were 85 cm3 (9 to 1612 cm3) and 120 cm3 (3 to 4520 cm^3) in the everolimus tablets and placebo arms, respectively. Forty-six (39%) patients had prior renal embolization or nephrectomy. The median duration of follow-up was 8.3 months (0.7 to 24.8 months) at the time of the primary analysis.

The renal angiomyolipoma response rate was statistically significantly higher in everolimus tablets-treated patients (Table 24). The median response duration was 5.3+ months (2.3+ to 19.6+ months).
There were 3 patients in the everolimus tablets arm and 8 patients in the placebo arm with documented angiomyolipoma progression by central radiologic review (defined as a ≥ 25% increase from nadir in the sum of angiomyolipoma target lesion volumes to a value greater than baseline, appearance of a new angiomyolipoma ≥ 1 cm in longest diameter, an increase in renal volume ≥ 20% from nadir for either kidney and to a value greater than baseline, or Grade ≥ 2 angiomyolipoma-related bleeding). The time to angiomyolipoma progression was statistically significantly longer in the everolimus tablets arm (HR 0.08 [95% CI: 0.02, 0.37]; p < 0.0001).

Table 24: Angiomyolipoma Response Rate in TSC-Associated Renal Angiomyolipoma in EXIST-2

	Everolimus Tablets N=79	**Placebo N=39**	**p-value**
Primary Analysis			
Angiomyolipoma response rate[a] - %	**41.8**	**0**	**<0.0001**
95% CI	(30.8, 53.4)	(0.0, 9.0)	

[a] Per independent central radiology review

Skin lesion response rates were assessed by local investigators for 77 patients in the everolimus tablets arm and 37 patients in the placebo arm who presented with skin lesions at study entry. The skin lesion response rate was statistically significantly higher in the everolimus tablets arm (26% vs. 0, p = 0.0011); all skin lesion responses were partial responses, defined as visual improvement in 50% to 99% of all skin lesions durable for at least 8 weeks (Physician's Global Assessment of Clinical Condition).

Patients randomized to placebo were permitted to receive everolimus tablets at the time of angiomyolipoma progression or after the time of the primary analysis. After the primary analysis, patients treated with everolimus tablets underwent additional follow-up CT or MRI scans to assess tumor status until discontinuation of treatment or completion of 4 years of follow-up after the last patient was randomized. A total of 112 patients (79 randomized to everolimus tablets and 33 randomized to placebo) received at least one dose of everolimus tablets. The median duration of everolimus tablets treatment was 3.9 years (0.5 months to 5.3 years) and the median duration of follow-up was 3.9 years (0.9 months to 5.4 years). During the follow-up period after the primary analysis, 32 patients (in addition to the 33 patients identified at the time of the primary analysis) had an angiomyolipoma response based upon independent central radiology review. Among the 65 responders out of 112 patients, the median time to angiomyolipoma response was 2.9 months (2.6 to 33.8 months). Fourteen percent of the 112 patients treated with everolimus tablets had angiomyolipoma progression by the end of the follow-up period. No patient underwent a nephrectomy for angiomyolipoma progression and one patient underwent renal embolization while treated with everolimus tablets.

14.5 Tuberous Sclerosis Complex (TSC)-Associated Subependymal Giant Cell Astrocytoma (SEGA)

EXIST-1

A randomized (2:1), double-blind, placebo-controlled trial (EXIST-1, NCT00789828) of everolimus tablets was conducted in 117 pediatric and adult patients with SEGA and TSC. Eligible patients had at least one SEGA lesion ≥ 1 cm in longest diameter on MRI based on local radiology assessment and one or more of the following: serial radiological evidence of SEGA growth, a new SEGA lesion ≥ 1 cm in longest diameter, or new or worsening hydrocephalus. Patients randomized to the treatment arm received everolimus tablets at a starting dose of 4.5 mg/m^2 daily, with subsequent dose adjustments as needed to achieve and maintain everolimus trough concentrations of 5 to 15 ng/mL as tolerated. Everolimus tablets or matched placebo continued until disease progression or unacceptable toxicity. MRI scans for disease assessment were obtained at baseline, 12, 24, and 48 weeks, and annually thereafter.

The main efficacy outcome measure was SEGA response rate based on independent central radiology review. SEGA response was defined as a ≥ 50% reduction in the sum of SEGA volume relative to baseline, in the absence of unequivocal worsening of non-target SEGA lesions, a new SEGA lesion ≥ 1 cm, and new or worsening hydrocephalus. The primary analysis of SEGA response rate was limited to the blinded treatment period and conducted 6 months after the last patient was randomized. The analysis of SEGA response rate was stratified by use of enzyme-inducing antiepileptic drugs (EIAEDs) at randomization (yes vs. no).

Of the 117 patients enrolled, 78 were randomized to everolimus tablets and 39 to placebo. The median age was 9.5 years (0.8 to 26 years); a total of 20 patients were < 3 years, 54 patients were 3 to < 12 years, 27 patients were 12 to < 18 years, and 16 patients were ≥ 18 years; 57% were male, and 93% were White. At baseline, 18% of patients were receiving EIAEDs. Based on central radiology review at baseline, 98% of patients had at least one SEGA lesion ≥ 1.0 cm in longest diameter, 79% had bilateral SEGAs, 43% had ≥ 2 target SEGA lesions, 26% had growth in or into the inferior surface of the ventricle, 9% had evidence of growth beyond the subependymal tissue adjacent to the ventricle, and 7% had radiographic evidence of hydrocephalus. The median values for the sum of all target SEGA lesions at baseline were 1.63 cm^3 (0.18 to 25.15 cm^3) and 1.30 cm^3 (0.32 to 9.75 cm^3) in the everolimus tablets and placebo arms respectively. Eight (7%) patients had prior SEGA-related surgery. The median duration of follow-up was 8.4 months (4.6 to 17.2 months) at the time of primary analysis.

The SEGA response rate was statistically significantly higher in everolimus tablets-treated patients (Table 25). At the time of the primary analysis, all SEGA responses were ongoing and the median duration of response was 5.3 months (2.1 to 8.4 months).

With a median follow-up of 8.4 months, SEGA progression was detected in 15.4% of the 39 patients randomized to receive placebo and none of the 78 patients randomized to receive everolimus tablets. No patient in either treatment arm required surgical intervention.

Table 25: Subependymal Giant Cell Astrocytoma Response Rate in TSC-Associated SEGA in EXIST-1

	Everolimus Tablets N=78	**Placebo N=39**	**p-value**
Final analysis			
SEGA response rate[a] - (%)	**35**	**0**	**<0.0001**
95% CI	24, 46	0, 9	

[a] Per independent central radiology review

Patients randomized to placebo were permitted to receive everolimus tablets at the time of SEGA progression or after the primary analysis, whichever occurred first. After the primary analysis, patients treated with everolimus tablets underwent additional follow-up MRI scans to assess tumor status until discontinuation of treatment or completion of 4 years of follow-up after the last patient was randomized. A total of 111 patients (78 patients randomized to everolimus tablets and 33 patients randomized to placebo)

received at least one dose of everolimus tablets. Median duration of everolimus tablets treatment and follow-up was 3.9 years (0.2 to 4.9 years).

By four years after the last patient was enrolled, 58% of the 111 patients treated with everolimus tablets had a ≥ 50% reduction in SEGA volume relative to baseline, including 27 patients identified at the time of the primary analysis and 37 patients with a SEGA response after the primary analysis. The median time to SEGA response was 5.3 months (2.5 to 33.1 months). Twelve percent of the 111 patients treated with everolimus tablets had documented disease progression by the end of the follow-up period and no patient required surgical intervention for SEGA during the study.

Study 2485

Study 2485 (NCT00411619) was an open-label, single-arm trial conducted to evaluate the antitumor activity of everolimus tablets 3 mg/m2/orally once daily in patients with SEGA and TSC. Serial radiological evidence of SEGA growth was required for entry. Tumor assessments were performed every 6 months for 60 months after the last patient was enrolled or disease progression, whichever occurred earlier. The major efficacy outcome measure was the reduction in volume of the largest SEGA lesion with 6 months of treatment, as assessed via independent central radiology review. Progression was defined as an increase in volume of the largest SEGA lesion over baseline that was ≥ 25% over the nadir observed on study.

A total of 28 patients received everolimus tablets for a median duration of 5.7 years (5 months to 6.9 years); 82% of the 28 patients remained on everolimus tablets for at least 5 years. The median age was 11 years (3 to 34 years), 61% male, 86% White.
At the primary analysis, 32% of the 28 patients (95% CI: 16%, 52%) had an objective response at 6 months, defined as at least a 50% decrease in volume of the largest SEGA lesion. At the completion of the study, the median duration of durable response was 12 months (3 months to 6.3 years).

By 60 months after the last patient was enrolled, 11% of the 28 patients had documented disease progression. No patient developed a new SEGA lesion while on everolimus tablets. Nine additional patients were identified as having a ≥50% volumetric reduction in their largest SEGA lesion between 1 to 4 years after initiating everolimus tablets including 3 patients who had surgical resection with subsequent regrowth prior to receiving everolimus tablets.

15 REFERENCES

1. OSHA Hazardous Drugs. OSHA. http://www.osha.gov/SLTC/hazardous drugs/index.html.

16 HOW SUPPLIED/STORAGE AND HANDLING

Everolimus Tablets

2.5 mg tablets
White to off-white coloured, oval, flat shaped tablets and no score, debossed with ‘EVR’ on one side and ‘2.5’ on the other side; available in:
Blisters of 28 tablets.....NDC 51991-821-28 (51991-821-99)
Each carton contains 4 blister cards of 7 tablets each

5 mg tablets
White to off-white coloured, oval, flat shaped tablets and no score, debossed with ‘EVR’ on one side and ‘5’ on the other side; available in:
Blisters of 28 tablets.....NDC 51991-822-28 (51991-822-99)
Each carton contains 4 blister cards of 7 tablets each

7.5 mg tablets
White to off-white coloured, oval, flat shaped tablets and no score, debossed with ‘EVR’ on one side and ‘7.5’ on the other side; available in:
Blisters of 28 tablets.....NDC 51991-823-28 (51991-823-99)
Each carton contains 4 blister cards of 7 tablets each

10 mg tablets
White to off-white coloured, oval, flat shaped tablets and no score, debossed with ‘EVR’ on one side and ‘NAT’ on the other side; available in:
Blisters of 28 tablets……NDC 51991-824-28 (51991-824-99)
Each carton contains 4 blister cards of 7 tablets each

Store Everolimus Tablets at 25°C (77°F); excursions permitted between 15°–30°C (59°–86°F). See USP Controlled Room Temperature.
Store in the original container, protect from light and moisture.

Follow special handling and disposal procedures for anticancer pharmaceuticals.[1]

17 PATIENT COUNSELING INFORMATION

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

Non-infectious Pneumonitis
Advise patients of the risk of developing non-infectious pneumonitis and to immediately report any new or worsening respiratory symptoms to their healthcare provider *[see Warnings and Precautions (5.1)]*.

Infections
Advise patients that they are more susceptible to infections and that they should immediately report any signs or symptoms of infections to their healthcare provider *[see Warnings and Precautions (5.2)]*.

Hypersensitivity Reactions
Advise patients of the risk of clinically significant hypersensitivity reactions and to promptly contact their healthcare provider or seek emergency care for signs of hypersensitivity reaction including rash, itching, hives, difficulty breathing or swallowing, flushing, chest pain, or dizziness *[see Contraindications (4), Warnings and Precautions (5.3)].*

Angioedema with Concomitant Use of ACE Inhibitors
Advise patients to avoid ACE inhibitors and to promptly contact their healthcare provider or seek emergency care for signs or symptoms of angioedema *[see Warnings and Precautions (5.4)]*.

Stomatitis
Advise patients of the risk of stomatitis and to use alcohol-free mouthwashes during treatment *[see Warnings and Precautions (5.5)].*

Renal Impairment
Advise patients of the risk of developing kidney failure and the need to monitor their kidney function periodically during treatment *[see Warnings and Precautions (5.6)]*.

Risk of Impaired Wound Healing
Advise patients that everolimus tablets may impair wound healing. Advise patients to inform their healthcare provider of any planned surgical procedure *[see Warnings and Precautions (5.7)]*.

Geriatric Patients
Inform patients that in a study conducted in patients with breast cancer, the incidence of deaths and adverse reactions leading to permanent discontinuation was higher in patients ≥ 65 years compared to patients < 65 years *[see Warnings and Precautions (5.8), Use in Specific Populations (8.5)].*

Metabolic Disorders
Advise patients of the risk of metabolic disorders and the need to monitor glucose and lipids periodically during therapy *[see Warnings and Precautions (5.9)].*

Myelosuppression
Advise patients of the risk of myelosuppression and the need to monitor CBCs periodically during therapy *[see Warnings and Precautions (5.10)]*.

Risk of Infection or Reduced Immune Response with Vaccination
Advise patients to avoid the use of live vaccines and close contact with those who have received live vaccines *[see Warnings and Precautions (5.11)].*

Embryo-Fetal Toxicity
Advise females of reproductive potential of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment and for 8 weeks after the last dose. Advise patients to inform their healthcare provider of a known or suspected pregnancy. Advise males with female partners of reproductive potential to use effective contraception during treatment and for 4 weeks after the last dose *[see Warnings and Precautions (5.12) and Use in Specific Populations (8.1, 8.3)].*

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

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

Manufactured by:
NATCO PHARMA LIMITED
Kothur- 509 228
India.

Distributed by:
Breckenridge Pharmaceutical Inc.
Boca Raton, FL 33487

PHARMACIST - DETACH HERE AND GIVE INSTRUCTIONS TO PATIENT

PATIENT INFORMATION
EVEROLIMUS (E-ver-OH-li-mus) TABLETS

Read this Patient Information leaflet that comes with everolimus tablets before you start taking it and each time you get a refill. There may be new information. This information does not take the place of talking to your healthcare provider about your medical condition or treatment.

What is the most important information I should know about everolimus tablets?
Everolimus tablets can cause serious side effects. These serious side effects include:
1. You may develop lung or breathing problems. In some people lung or breathing problems may be severe, and can even lead to death. Tell your healthcare provider right away if you have any of these symptoms:
- New or worsening cough
- Shortness of breath
- Chest pain
- Difficulty breathing or wheezing

2. You may be more likely to develop an infection, such as pneumonia, or a bacterial, fungal or viral infection. Viral infections may include active hepatitis B in people who have had hepatitis B in the past (reactivation). In some people (including adults and children) these infections may be severe, and can even lead to death. You may need to be treated as soon as possible.

Tell your healthcare provider right away if you have a temperature of 100.5˚F or above, chills, or do not feel well.
Symptoms of hepatitis B or infection may include the following:

• Fever • Chills • Skin rash • Joint pain and inflammation • Tiredness	• Loss of appetite • Nausea • Pale stools or dark urine • Yellowing of the skin • Pain in the upper right side of the stomach

3. Severe allergic reactions. Severe allergic reactions can happen in people who take everolimus tablets. Call your healthcare provider or get medical help right away if you get signs and symptoms of a severe allergic reaction including: rash, itching, hives, flushing, trouble breathing or swallowing, chest pain or dizziness.

4. Possible increased risk for a type of allergic reaction called angioedema, in people who take an Angiotensin-Converting Enzyme (ACE) inhibitor medicine during treatment with everolimus tablets. Talk with your healthcare provider before taking everolimus tablets if you are not sure if you take an ACE inhibitor medicine. Get medical help right away if you have trouble breathing or develop swelling of your tongue, mouth, or throat during treatment with everolimus tablets.

5. You may develop kidney failure. In some people this may be severe and can even lead to death. Your healthcare provider should do tests to check your kidney function before and during your treatment with everolimus tablets.

If you have any of the serious side effects listed above, you may need to stop taking everolimus tablets for a while or use a lower dose. Follow your healthcare provider's instructions.

What are everolimus tablets?

Everolimus tablets are a prescription medicine used to treat:
- adults with advanced kidney cancer (renal cell carcinoma or RCC) when certain other

medicines have not worked.
- people with the following types of tumors that are seen with a genetic condition called tuberous sclerosis complex (TSC):
  - adults with a kidney tumor called angiomyolipoma, when their kidney tumor does not require surgery right away.
  - adults and children 1 year of age and older with a brain tumor called subependymal giant cell astrocytoma (SEGA) when the tumor cannot be removed completely by surgery.

Who should not take everolimus tablets?
Do not take everolimus tablets if you have had a severe allergic reaction to everolimus. Talk to your healthcare provider before taking this medicine if you are allergic to:
- sirolimus (Rapamune®)
- temsirolimus (Torisel®)

Ask your healthcare provider if you do not know.

What should I tell my healthcare provider before taking everolimus tablets?
Before taking everolimus tablets, tell your healthcare provider about all of your medical conditions, including if you:
- Have or have had kidney problems
- Have or have had liver problems
- Have diabetes or high blood sugar
- Have high blood cholesterol levels
- Have any infections
- Previously had hepatitis B
- Are scheduled to receive any vaccinations. You should not receive a “live vaccine” or be around people who have recently received a “live vaccine” during your treatment with everolimus tablets. If you are not sure about the type of immunization or vaccine, ask your healthcare provider. For children with TSC and SEGA, work with your healthcare provider to complete the recommended childhood series of vaccines before your child starts treatment with everolimus tablets.
- Are pregnant, can become pregnant, or have a partner who can become pregnant. Everolimus tablets can cause harm to your unborn baby. If you are a female who is able to become pregnant you should use effective birth control during treatment and for 8 weeks after your last dose of everolimus tablets. If you are a male with a female partner, you should use effective birth control during treatment and for 4 weeks after your last dose of everolimus tablets. 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 everolimus passes into your breast milk. Do not breastfeed during treatment and for 2 weeks after your last dose of everolimus tablets.
- Are planning to have surgery or if you have had a recent surgery. You should stop taking everolimus at least 1 week before planned surgery. See **"What are the possible side effects of everolimus tablets?"**

Tell your healthcare provider about all of the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.
Everolimus tablets may affect the way other medicines work, and other medicines can affect how everolimus tablets work. Taking everolimus tablets with other medicines can cause serious side effects.

Know the medicines you take. Keep a list of them and show it to your healthcare provider and pharmacist when you get a new medicine. Especially tell your healthcare provider if you take:
- St. John’s Wort (Hypericum perforatum)
- Medicine for:
  - Fungal infections
  - Bacterial infections
  - Tuberculosis
  - Seizures
  - HIV-AIDS
  - Heart conditions or high blood pressure
- Medicines that weaken your immune system (your body’s ability to fight infections and other problems)

Ask your healthcare provider or pharmacist if you are not sure if your medicine is one of those taken for the conditions listed above. If you are taking any medicines for the conditions listed above, your healthcare provider might need to prescribe a different medicine or your dose of everolimus tablets may need to be changed. You should also tell your healthcare provider before you start taking any new medicine.

How should I take everolimus tablets?
- Your healthcare provider will prescribe the dose of everolimus tablets that is right for you.
- Take everolimus tablets exactly as your healthcare provider tells you to.

- When you start treatment with everolimus tablets, your healthcare provider may also prescribe a mouthwash to reduce the likelihood of getting mouth ulcers or sores and to reduce their severity. Follow your healthcare provider's instructions on how to use this prescription mouthwash.
- Your healthcare provider may change your dose of everolimus tablets or tell you to temporarily interrupt dosing, if needed.
- **Take only everolimus tablets or everolimus tablets for oral suspension. Do not mix everolimus tablets and everolimus tablets for oral suspension together**.
- See instructions at the end of this patient information sheet to open blister pack.

Everolimus Tablets:

- Swallow everolimus tablets whole with a glass of water. Do not take any tablet that is broken or crushed.
- Take everolimus tablets 1 time each day at about the same time.
- Take everolimus tablets the same way each time, either with food or without food.
- If you take too much everolimus tablets contact your healthcare provider or go to the nearest hospital emergency room right away. Take the pack of everolimus tablets with you.
- If you miss a dose of everolimus tablets, you may take it if it is **less than 6 hours** after the time you normally take it. If it is **more than 6 hours** after you normally take your everolimus tablets, skip the dose for that day. The next day, take everolimus tablets at your usual time. Do not take 2 doses to make up for a missed dose. If you are not sure about what to do, call your healthcare provider.
- You should have blood tests before you start everolimus tablets and as needed during your treatment. These will include tests to check your blood cell count, kidney and liver function, cholesterol, and blood sugar levels.
- If you take everolimus tablets to treat SEGA, you will also need to have blood tests regularly to measure how much medicine is in your blood. This will help your healthcare provider decide how much everolimus tablets you need to take.

What should I avoid while taking everolimus tablets?

You should not drink grapefruit juice or eat grapefruit during your treatment with everolimus tablets. It may make the amount of everolimus tablets in your blood increase to a harmful level.

What are the possible side effects of everolimus tablets?

Everolimus tablets can cause serious side effects.

- **See "What is the most important information I should know about everolimus tablets?" for more information.**
- **Risk of wound healing problems.** Wounds may not heal properly during everolimus tablets treatment.Tell your healthcare provider if you plan to have any surgery before starting or during treatment with everolimus tablets.
  - You should stop taking everolimus tablets at least 1 week before planned surgery.
  - Your healthcare provider should tell you when you may start taking everolimus tablets again after surgery.
- **Increased blood sugar and fat (cholesterol and triglyceride) levels in the blood.** Your healthcare provider should do blood tests to check your fasting blood sugar, cholesterol, and triglyceride levels in the blood before you start and during treatment with everolimus tablets.
- **Decreased blood cell counts.** Everolimus tablets can cause you to have decreased red blood cells, white blood cells, and platelets. Your healthcare provider should do blood tests to check your blood cell counts before you start and during treatment with everolimus tablets.

The most common side effects of everolimus tablets in people with advanced kidney cancer include:

- Mouth ulcers. Everolimus tablets can cause mouth ulcers and sores. When you start treatment with everolimus tablets, your healthcare provider may tell you to also start a prescription mouthwash to reduce the likelihood of getting mouth ulcers or sores and to reduce their severity. Follow your healthcare provider's instructions on how to use this prescription mouthwash. If you develop pain, discomfort, or open sores in your mouth, tell your healthcare provider. Your healthcare provider may tell you to re-start this mouthwash or to use a special mouthwash or mouth gel that does not contain alcohol, peroxide, iodine, or thyme.

• Infections • Rash • Feeling weak or tired • Diarrhea • Swelling of arms, hands, feet, ankles, face or other parts of the body	• Stomach-area (abdominal) pain • Nausea • Fever • Cough • Headache • Decreased appetite

The most common side effects of everolimus tablets in people who have SEGA, renal angiomyolipoma include:

- Mouth ulcers. Everolimus tablets can cause mouth ulcers and sores. When you start treatment with everolimus tablets, your healthcare provider may tell you to also start a prescription mouthwash to reduce the likelihood of getting mouth ulcers or sores and to reduce their severity. Follow your healthcare provider's instructions on how to use this prescription mouthwash. If you develop pain, discomfort, or open sores in your mouth, tell your healthcare provider. Your healthcare provider may tell you to re-start this mouthwash or to use a special mouthwash or mouth gel that does not contain alcohol, peroxide, iodine, or thyme.
- Respiratory tract infections.

Other side effects that may occur with everolimus tablets:
- Absence of menstrual periods (menstruation). You may miss 1 or more menstrual periods. Tell your healthcare provider if this happens.
- Everolimus tablets may affect fertility in females and may affect your ability to become pregnant. Talk to your healthcare provider if this is a concern for you.
- Everolimus tablets may affect fertility in males and may affect your ability to father a child. Talk to your healthcare provider if this is a concern for you.

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

These are not all the possible side effects of everolimus tablets. 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 everolimus tablets?
- Store everolimus tablets at room temperature, between 68°F to 77°F (20°C to 25°C).
- Keep everolimus tablets in the pack it comes in.
- Open the blister pack just before taking everolimus tablets.
- Keep everolimus tablets dry and away from light.
- Do not use everolimus tablets that are out of date or no longer needed.

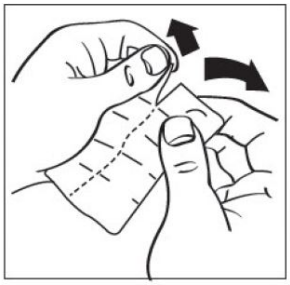
Keep everolimus tablets and all medicines out of the reach of children.

General information about everolimus tablets
Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use everolimus tablets for a condition for which it was not prescribed. Do not give everolimus tablets to other people, even if they have the same problem you have. It may harm them.

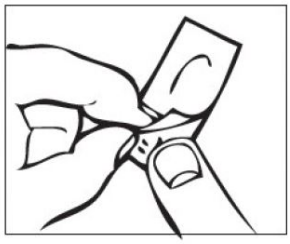
This leaflet summarizes the most important information about everolimus tablets. If you would like more information, talk with your healthcare provider. You can ask your healthcare provider or pharmacist for information written for healthcare professionals. For more information call 1-800-367-3395 or go to www.bpirx.com.

What are the ingredients in everolimus tablets?
Active ingredient: everolimus.
Inactive ingredients: anhydrous lactose, butylated hydroxytoluene, crospovidone, hypromellose, and magnesium stearate.

How should I open everolimus tablets from child-resistant blister?
- Separate each unit of the blister individually through perforation and peel the lidding foil from "PEEL HERE" portion.
- Do not push everolimus tablets through the foil, may cause the tablet to break.



Pull apart 1 of the blister units from the blister pack by tearing along the dotted lines (Perforations) until it is fully separated



- Peel the lidding foil from "PEEL HERE" portion.

Manufactured by:
NATCO PHARMA LIMITED
Kothur- 509 228, India.

Distributed by:
Breckenridge Pharmaceutical, Inc.
Boca Raton, FL 33487
The brands listed are the trademarks or register marks of their respective owners and are not trademarks or register marks of Breckenridge Pharmaceutical, Inc.

This Patient Information has been approved by the U.S. Food and Drug Administration.

Everolimus Tablets 2.5 mg

28 Tablets
Carton contains
4 individual blister cards
of 7 tablets.
Foil NDC-63850-0058-1
Carton NDC-63850-0058-2

Foil width 126 mm A/s: 76 x 118 mm Everolimus 2.5 mg Foil Black 05/02/2021
Printing Colours: 1925C, Bk

A/s: 120 x 28 x 79 mm Everolimus 2.5 mg Carton 06/02/2021

Product Name	Everolimus Tablets
Strength	2.5 mg
Count	28's
Artwork Dimensions	120x28x79 mm
Unvarnished Area Dimensions	22x73mm
Font Type	Garamond/Helvetica
Font Size	20pt/9pt
Market	US
Area for 2D barcode	15x15 mm
Colors	Pantone 1925 C ■ Pantone 3425C ■ Pantone 2271C ■ Black C

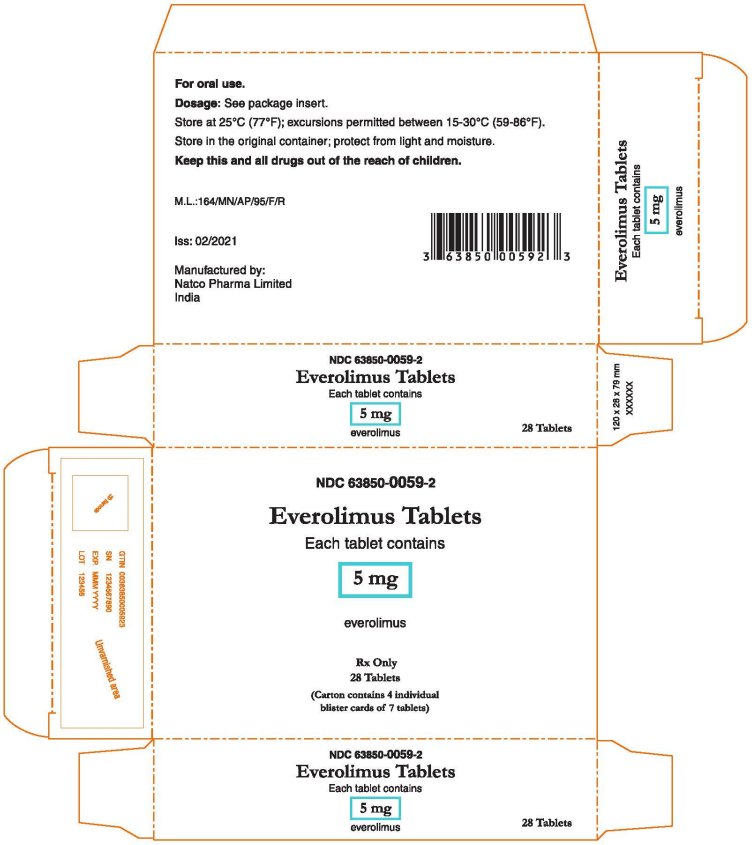
Non Printing color: Pantone 021C

Everolimus Tablets 5 mg

28 Tablets
Carton contains
4 individual blister cards
of 7 tablets.
Foil NDC-63850-0059-1
Carton NDC-63850-0059-2

Foil width 126 mm A/s: 76 x 118 mm Everolimus 5 mg Foil Black 05/02/2021

Printing Colours: 319C, Bk



A/s: 120 x 28 x 79 mm Everolimus 5 mg Carton 06/02/2021

Product Name	Everolimus Tablets
Strength	5 mg
Count	28's
Artwork Dimensions	120x28x79 mm
Unvarnished Area Dimensions	22x73 mm
Font Type	Garamond/Helvetica
Font Size	20pt/9pt
Market	US
Area for 2D barcode	15x15 mm
Colors	Pantone 319C Pantone 3425C Pantone 2271C Black C

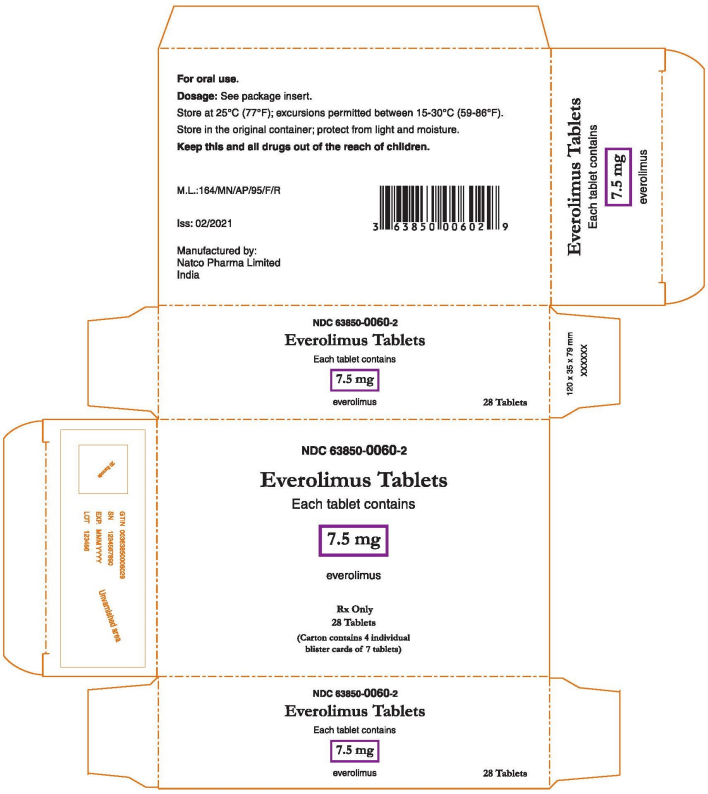
Non Printing color: Pantone 021C

Everolimus Tablets 7.5 mg

28 Tablets
Carton contains
4 individual blister cards
of 7 tablets.
Foil NDC-63850-0060-1
Carton NDC-63850-0060-2

Foil width 126 mm A/s: 76 x 118 mm Everolimus 7.5 mg Foil Black 05/02/2021

Printing Colours: 2593C, Bk



A/s: 120 x 35 x 79 mm Everolimus 7.5 mg Carton 06/02/2021

Product Name	Everolimus Tablets
Strength	7.5 mg
Count	28's
Artwork Dimensions	120x35x79 mm
Unvarnished Area Dimensions	26x73 mm
Font Type	Garamond/Helvetica
Font Size	20pt/9pt
Market	US
Area for 2D barcode	15x15 mm
Colors	Pantone 2593C Pantone 3425C Pantone 2271C Black C

Non Printing color: Pantone 021C

Everolimus Tablets 10 mg

28 Tablets
Carton contains
4 individual blister cards
of 7 tablets.
Foil NDC-63850-0061-1
Carton NDC-63850-0061-2

Foil width 126 mm A/s: 76 x 118 mm Everolimus 10 mg Foil Black 05/02/2021

Printing Colours: 1505 C, Bk

A/s: 120 x 35 x 79 mm Everolimus 10 mg Carton 06/02/20201

Product Name	Everolimus Tablets
Strength	10 mg
Count	28's
Artwork Dimensions	120x35x79 mm
Unvarnished Area Dimensions	26x73 mm
Font Type	Garamond/Helvetica
Font Size	20pt/9pt
Market	US
Area for 2D barcode	15x15 mm
Colors	Pantone 1505C Pantone 3425C Pantone 2271C Black C

Non Printing color: Pantone 021C

EVEROLIMUS
everolimus tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:63850-0058
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
EVEROLIMUS (UNII: 9HW64Q8G6G) (EVEROLIMUS - UNII:9HW64Q8G6G)	EVEROLIMUS	2.5 mg

Inactive Ingredients

Ingredient Name	Strength
ACETONE (UNII: 1364PS73AF)	
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	
BUTYLATED HYDROXYTOLUENE (UNII: 1P9D0Z171K)	
HYPROMELLOSE 2910 (3 MPA.S) (UNII: 0VUT3PMY82)	
CROSPOVIDONE (120 .MU.M) (UNII: 68401960MK)	

MAGNESIUM STEARATE (UNII: 70097M6I30)	

Product Characteristics			
Color	WHITE	**Score**	no score
Shape	OVAL	**Size**	10mm
Flavor		**Imprint Code**	EVR;2;5
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:63850-0058-1	4 in 1 CARTON	03/05/2021	
1		7 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA205426	03/05/2021	

EVEROLIMUS

everolimus tablet

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:63850-0059
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
EVEROLIMUS (UNII: 9HW64Q8G6G) (EVEROLIMUS - UNII:9HW64Q8G6G)	EVEROLIMUS	5 mg

Inactive Ingredients

Ingredient Name	Strength
ACETONE (UNII: 1364PS73AF)	
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	
BUTYLATED HYDROXYTOLUENE (UNII: 1P9D0Z171K)	
HYPROMELLOSE 2910 (3 MPA.S) (UNII: 0VUT3PMY82)	
CROSPOVIDONE (120 .MU.M) (UNII: 68401960MK)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	

Product Characteristics			
Color	WHITE	**Score**	no score
Shape	OVAL	**Size**	12mm
Flavor		**Imprint Code**	EVR;5
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:63850-0059-1	4 in 1 CARTON	03/05/2021	
1		7 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA205426	03/05/2021	

EVEROLIMUS

everolimus tablet

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:63850-0060
Route of Administration	ORAL		

Active Ingredient/Active Moiety		
Ingredient Name	**Basis of Strength**	**Strength**
EVEROLIMUS (UNII: 9HW64Q8G6G) (EVEROLIMUS - UNII:9HW64Q8G6G)	EVEROLIMUS	7.5 mg

Inactive Ingredients	
Ingredient Name	**Strength**
ACETONE (UNII: 1364PS73AF)	
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	
BUTYLATED HYDROXYTOLUENE (UNII: 1P9D0Z171K)	
HYPROMELLOSE 2910 (3 MPA.S) (UNII: 0VUT3PMY82)	
CROSPOVIDONE (120 .MU.M) (UNII: 68401960MK)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	

Product Characteristics			
Color	WHITE	**Score**	no score
Shape	OVAL	**Size**	14mm
Flavor		**Imprint Code**	EVR;7;5
Contains			

Packaging				
#	**Item Code**	**Package Description**	**Marketing Start Date**	**Marketing End Date**
1	NDC:63850-0060-1	4 in 1 CARTON	03/05/2021	
1		7 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA205426	03/05/2021	

EVEROLIMUS

everolimus tablet

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	**Item Code (Source)**	NDC:63850-0061
Route of Administration	ORAL		

Active Ingredient/Active Moiety		
Ingredient Name	**Basis of Strength**	**Strength**
EVEROLIMUS (UNII: 9HW64Q8G6G) (EVEROLIMUS - UNII:9HW64Q8G6G)	EVEROLIMUS	10 mg

Inactive Ingredients	
Ingredient Name	**Strength**
ACETONE (UNII: 1364PS73AF)	
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	
BUTYLATED HYDROXYTOLUENE (UNII: 1P9D0Z171K)	
HYPROMELLOSE 2910 (3 MPA.S) (UNII: 0VUT3PMY82)	
CROSPOVIDONE (120 .MU.M) (UNII: 68401960MK)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	

Product Characteristics			
Color	WHITE	**Score**	no score
Shape	OVAL	**Size**	15mm
Flavor		**Imprint Code**	EVR;NAT
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:63850-0061-1	4 in 1 CARTON	03/05/2021	
1		7 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA205426	03/05/2021	

Labeler - Natco Pharma Limited (650224736)

Establishment

Name	Address	ID/FEI	Business Operations
Natco Pharma Limited-Pharma Division		918588174	MANUFACTURE(63850-0058, 63850-0059, 63850-0060, 63850-0061)

Revised: 3/2021 Natco Pharma Limited