



ODOMZO SUPPORT™ Resource Guide

Help your eligible patients receive ODOMZO®

Insured Patients:

**Pay as little as
\$10***

**Insured patients:
Pay as little as
\$10***

Eligibility: Commercially insured patients ONLY
BILL PRIMARY INSURANCE FIRST
RxBIN: 610524 RxGRP: 50777436
RxPCN: Loyalty ISSUER: (80840)
ID: XXXXXXXXXX
To activate this card, call
1-877-ODOMZO-1 (1-877-636-6961)
or visit www.activatethecard.com/7436



Please contact your ODOMZO® sales representative with any questions about the application process or call **ODOMZO SUPPORT™** at **1-844-5-ODOMZO (1-844-563-6696)** Monday - Friday, 8 AM - 8 PM EST.



Co-pay Program

The ODOMZO® Co-pay Program helps eligible commercially insured patients 18 years or older access their ODOMZO® prescriptions.*

Patients can check eligibility and activate the co-pay card by visiting www.activatethecard.com/7436.

*Eligibility criteria apply. See full terms and conditions on reverse side.



Patient Assistance Program

Patients who are underinsured or uninsured may be eligible to receive free medication.† To get your patients started with the Patient Assistance Program, simply **complete the ODOMZO SUPPORT™ Patient Assistance Program Application, which is available at www.ODOMZO.com.**

†Income documentation is required. Subject to terms and conditions. Available to US, Guam, Virgin Islands, or Puerto Rico residents only.



Prior Authorization Assistance

POWERED BY COVERMYMEDS®

Sun Pharma and CoverMyMeds are working together to expedite the prior authorization process to help your patients receive their ODOMZO® therapy as prescribed.

For more information, contact CoverMyMeds at 1-866-452-5017.

Please see Indication and Important Safety Information on reverse side and accompanying full Prescribing Information, including Boxed WARNING.

INDICATION

ODOMZO® (sonidegib) is indicated for the treatment of adult patients with locally advanced basal cell carcinoma (BCC) that has recurred following surgery or radiation therapy, or those who are not candidates for surgery or radiation therapy.

IMPORTANT SAFETY INFORMATION

WARNING: EMBRYO-FETAL TOXICITY

- **ODOMZO can cause embryo-fetal death or severe birth defects when administered to a pregnant woman. ODOMZO is embryotoxic, fetotoxic, and teratogenic in animals**
- **Verify the pregnancy status of females of reproductive potential prior to initiating therapy. Advise females of reproductive potential to use effective contraception during treatment with ODOMZO and for at least 20 months after the last dose**
- **Advise males of the potential risk of exposure through semen and to use condoms with a pregnant partner or a female partner of reproductive potential during treatment with ODOMZO and for at least 8 months after the last dose**

Embryo-fetal Toxicity: ODOMZO can cause embryo-fetal death or severe birth defects when administered to a pregnant woman.

Females of Reproductive Potential: Verify pregnancy status prior to initiating ODOMZO. Advise females to use effective contraception and not to breastfeed, due to the potential for serious adverse reactions in breastfed infants, during treatment and for at least 20 months after the last dose. Report pregnancies to Sun Pharmaceutical Industries, Inc. at 1-800-406-7984.

Males: Advise males to use condoms, even after a vasectomy, and to not donate semen during treatment and for at least 8 months after the last dose to avoid potential drug exposure in pregnant females or females of reproductive potential.

ODOMZO® CO-PAY PROGRAM TERMS AND CONDITIONS

To participate in the ODOMZO® (sonidegib) Co-Pay Program ("Program"), you must present this card, along with a valid prescription for ODOMZO®, to your pharmacist. Patients with commercial health insurance who qualify to participate can pay as little as \$10 per month, with a maximum annual benefit of \$15,000 per calendar year. Enrollment is subject to the Eligibility Rules and Terms and Conditions, stated below. If you have any questions regarding Eligibility, the Terms and Conditions, or to discontinue participation, please call 1-877-ODOMZO-1 (1-877-636-6961) (8:00 AM-8:00 PM EST, Monday-Friday).

Eligibility Rules

- To participate in this Program, you must have commercial health insurance and be a resident of the United States, Puerto Rico, Guam, or the Virgin Islands
- The following patients are *ineligible* for this Program:
 - Patients covered under Medicaid (including Medicaid patients enrolled in a Medicaid Managed Care Plan or a qualified health plan purchased through a health insurance exchange marketplace established by a state government or the federal government)
 - Patients covered by Medicare, a Medicare Part D or Medicare Advantage plan (regardless of whether a specific prescription is covered)
 - Patients covered by TRICARE, CHAMPUS, Puerto Rico Government Health Insurance Plan, or any other state or federal medical or pharmaceutical benefit program or pharmaceutical assistance program
 - Patients with no insurance

Terms and Conditions

- You agree to not seek any reimbursement for all or any part of the co-pay assistance received through the Program. By using this card, you are certifying that you understand the Eligibility Rules and Terms and Conditions, that you have responded truthfully to questions when activating the card, and that you will disclose and report your receipt of any Program benefits to your insurer, health plan, or any third party that pays or reimburses you for the cost of medications, if required
- This offer may be rescinded, revoked, or cancelled at any time without further notice, and the rules may be amended at any time without further notice

Disclosures

- This Program is not insurance
- The Program is void where prohibited by law, taxed, or restricted. Any benefit provided is not transferable and cannot be combined with any other program, free trial, discount, prescription savings card, or other offer. No purchase, other than for an ODOMZO® prescription, is required to participate
- Personal data that you provide to the Program may be collected, analyzed, and shared with the Program sponsor for market research and other lawful purposes, but only in aggregated and de-identified form

Blood Donation: Advise patients not to donate blood or blood products while taking ODOMZO, and for at least 20 months after the last dose because their blood or blood products might be given to a female of reproductive potential.

Musculoskeletal Adverse Reactions: Musculoskeletal adverse reactions, which may be accompanied by serum creatine kinase (CK) elevations, occur with ODOMZO and other drugs which inhibit the hedgehog (Hh) pathway. Obtain serum CK and creatinine levels prior to initiating therapy, periodically during treatment, and as clinically indicated. Temporary dose interruption or discontinuation of ODOMZO may be required based on the severity of musculoskeletal adverse reactions.

Premature Fusion of the Epiphyses: ODOMZO is not indicated for use in pediatric patients. Premature fusion of the epiphyses has been reported in pediatric patients exposed to ODOMZO and other Hh pathway inhibitors. In some cases, fusion progressed after discontinuation.

Drug Interactions: Avoid concomitant administration of ODOMZO with strong and moderate CYP3A inhibitors. If a moderate CYP3A inhibitor must be used, administer for less than 14 days and monitor closely for adverse reactions, particularly musculoskeletal. Avoid concomitant administration of ODOMZO with strong and moderate CYP3A inducers.

Geriatric Use: There was a higher incidence of serious adverse events, Grade 3 and 4, and events requiring dose interruption or discontinuation in patients ≥65 years compared with younger patients; this was not attributable to an increase in any specific adverse event.

Most Common Adverse Reactions: The most common adverse reactions occurring in ≥10% of patients were muscle spasms (54%), alopecia (53%), dysgeusia (46%), fatigue (41%), nausea (39%), musculoskeletal pain (32%), diarrhea (32%), decreased weight (30%), decreased appetite (23%), myalgia (19%), abdominal pain (18%), headache (15%), pain (14%), vomiting (11%), and pruritus (10%).

Please see accompanying full Prescribing Information, including Boxed WARNING.



ODOMZO and ODOMZO SUPPORT are trademarks of Sun Pharma Global FZE.

All other trademarks are the property of their respective owners.

© 2021 Sun Pharmaceutical Industries, Inc. All rights reserved. PM-US-ODZ-0406 04/2021



Odomzo®
capsules
200mg

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

ODOMZO® (sonidegib) capsules, for oral use

Initial U.S. Approval: 2015

WARNING: EMBRYO-FETAL TOXICITY

See full prescribing information for complete boxed warning.

- ODOMZO can cause embryo-fetal death or severe birth defects when administered to a pregnant woman and is embryotoxic, fetotoxic, and teratogenic in animals. (5.1, 8.1)
- Verify the pregnancy status of females of reproductive potential prior to initiating therapy. Advise females of reproductive potential to use effective contraception during treatment with ODOMZO and for at least 20 months after the last dose. (5.1, 8.3)
- Advise males of the potential risk of exposure through semen and to use condoms with a pregnant partner or a female partner of reproductive potential during treatment with ODOMZO and for at least 8 months after the last dose. (5.1, 8.3)

RECENT MAJOR CHANGES

Warnings and Precautions, Premature Fusion of the Epiphyses (5.3) 05/2019

INDICATIONS AND USAGE

ODOMZO is a hedgehog pathway inhibitor indicated for the treatment of adult patients with locally advanced basal cell carcinoma (BCC) that has recurred following surgery or radiation therapy, or those who are not candidates for surgery or radiation therapy. (1)

DOSAGE AND ADMINISTRATION

Recommended dosage: 200 mg orally once daily taken on an empty stomach, at least 1 hour before or 2 hours after a meal. (2.2)

DOSAGE FORMS AND STRENGTHS

200 mg capsules (3)

FULL PRESCRIBING INFORMATION: CONTENTS*

WARNING: EMBRYO-FETAL TOXICITY

1 INDICATIONS AND USAGE

2 DOSAGE AND ADMINISTRATION

- 2.1 Important Safety Information
- 2.2 Recommended Dosage
- 2.3 Dosage Modifications for Adverse Reactions

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

- 5.1 Embryo-Fetal Toxicity
- 5.2 Musculoskeletal Adverse Reactions
- 5.3 Premature Fusion of the Epiphyses

6 ADVERSE REACTIONS

- 6.1 Clinical Trials Experience

7 DRUG INTERACTIONS

- 7.1 Effects of Other Drugs on ODOMZO

8 USE IN SPECIFIC POPULATIONS

CONTRAINDICATIONS

None. (4)

WARNINGS AND PRECAUTIONS

- Embryo-Fetal Toxicity: Advise patients not to donate blood or blood products during treatment with ODOMZO and for at least 20 months after the last dose. (5.1)
- Musculoskeletal Adverse Reactions: Obtain serum creatine kinase (CK) and creatinine levels prior to initiating therapy, periodically during treatment, and as clinically indicated. Temporary dose interruption or discontinuation of ODOMZO may be required based on the severity of musculoskeletal adverse reactions. (2.2, 5.2)
- Premature fusion of the epiphyses (5.3, 8.4)

ADVERSE REACTIONS

The most common adverse reactions occurring in $\geq 10\%$ of patients are muscle spasms, alopecia, dysgeusia, fatigue, nausea, musculoskeletal pain, diarrhea, decreased weight, decreased appetite, myalgia, abdominal pain, headache, pain, vomiting, and pruritus. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Sun Pharmaceutical Industries, Inc. at 1-800-406-7984 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- CYP3A inhibitors: Avoid strong CYP3A inhibitors. Avoid long-term (greater than 14 days) use of moderate CYP3A inhibitors. (7.1)
- CYP3A inducers: Avoid strong and moderate CYP3A inducers. (7.1)

USE IN SPECIFIC POPULATIONS

- Lactation: Advise not to breastfeed. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 05/2019

- 8.1 Pregnancy
- 8.2 Lactation
- 8.3 Females and Males of Reproductive Potential
- 8.4 Pediatric Use
- 8.5 Geriatric Use
- 11 DESCRIPTION
- 12 CLINICAL PHARMACOLOGY
 - 12.1 Mechanism of Action
 - 12.2 Pharmacodynamics
 - 12.3 Pharmacokinetics
- 13 NONCLINICAL TOXICOLOGY
 - 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
 - 13.2 Animal Toxicology and/or Pharmacology
- 14 CLINICAL STUDIES
- 16 HOW SUPPLIED/STORAGE AND HANDLING
- 17 PATIENT COUNSELING INFORMATION

* Sections or subsections omitted from the full prescribing information are not listed

FULL PRESCRIBING INFORMATION

WARNING: EMBRYO-FETAL TOXICITY

- **ODOMZO can cause embryo-fetal death or severe birth defects when administered to a pregnant woman. ODOMZO is embryotoxic, fetotoxic, and teratogenic in animals [see Warnings and Precautions (5.1) and Use in Specific Populations (8.1)].**
- **Verify the pregnancy status of females of reproductive potential prior to initiating therapy. Advise females of reproductive potential to use effective contraception during treatment with ODOMZO and for at least 20 months after the last dose [see Warnings and Precautions (5.1) and Use in Specific Populations (8.3)].**
- **Advise males of the potential risk of exposure through semen and to use condoms with a pregnant partner or a female partner of reproductive potential during treatment with ODOMZO and for at least 8 months after the last dose [see Warnings and Precautions (5.1) and Use in Specific Populations (8.3)].**

1 INDICATIONS AND USAGE

ODOMZO (sonidegib) is indicated for the treatment of adult patients with locally advanced basal cell carcinoma (BCC) that has recurred following surgery or radiation therapy, or those who are not candidates for surgery or radiation therapy.

2 DOSAGE AND ADMINISTRATION

2.1 Important Safety Information

Verify the pregnancy status of females of reproductive potential prior to initiating ODOMZO [see Use in Specific Populations (8.1, 8.3)].

2.2 Recommended Dosage

The recommended dosage of ODOMZO is 200 mg taken orally once daily on an empty stomach, at least 1 hour before or 2 hours after a meal, administered until disease progression or unacceptable toxicity [see Clinical Pharmacology (12.3)].

Obtain serum creatine kinase (CK) levels and renal function tests prior to initiating ODOMZO in all patients [see Dosage and Administration (2.2) and Warnings and Precautions (5.2)]. If a dose of ODOMZO is missed, resume dosing with the next scheduled dose.

2.3 Dosage Modifications for Adverse Reactions

Interrupt ODOMZO for

- Severe or intolerable musculoskeletal adverse reactions.
- First occurrence of serum CK elevation between 2.5 and 10 times upper limit of normal (ULN).
- Recurrent serum CK elevation between 2.5 and 5 times ULN.

Resume ODOMZO at 200 mg daily upon resolution of clinical signs and symptoms.

Permanently discontinue ODOMZO for

- Serum CK elevation greater than 2.5 times ULN with worsening renal function.
- Serum CK elevation greater than 10 times ULN.
- Recurrent serum CK elevation greater than 5 times ULN.
- Recurrent severe or intolerable musculoskeletal adverse reactions.

3 DOSAGE FORMS AND STRENGTHS

Capsules: 200 mg, opaque pink colored with 'SONIDEGIB 200MG' printed on the body and 'NVR' printed on the cap in black ink (equivalent to 281 mg of diphosphate salt of sonidegib).

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Embryo-Fetal Toxicity

ODOMZO can cause embryo-fetal death or severe birth defects when administered to a pregnant woman. In animal reproduction studies, sonidegib was embryotoxic, fetotoxic, and teratogenic at maternal exposures below the recommended human dose of 200 mg [see *Use in Specific Populations* (8.1)].

Females of Reproductive Potential

Verify pregnancy status of females of reproductive potential prior to initiating ODOMZO treatment. Advise pregnant women of the potential risk to a fetus. Advise females to use effective contraception during treatment with ODOMZO and for at least 20 months after the last dose [see *Use in Specific Populations* (8.3)].

Males

Advise male patients with female partners to use condoms, even after a vasectomy, during treatment with ODOMZO and for at least 8 months after the last dose to avoid potential drug exposure in pregnant females or females of reproductive potential [see *Use in Specific Populations* (8.3)].

Blood Donation

Advise patients not to donate blood or blood products while taking ODOMZO and for at least 20 months after the last dose of ODOMZO, because their blood or blood products might be given to a female of reproductive potential.

5.2 Musculoskeletal Adverse Reactions

Musculoskeletal adverse reactions, which may be accompanied by serum creatine kinase (CK) elevations, occur with ODOMZO and other drugs which inhibit the hedgehog (Hh) pathway.

In a pooled safety analysis of 12 clinical studies involving 571 patients with various advanced cancers treated with ODOMZO at doses ranging from 100 mg to 3000 mg, rhabdomyolysis (defined as serum CK increase of more than ten times the baseline value with a concurrent 1.5-fold or greater increase in serum creatinine above baseline value) occurred in one patient (0.2%) treated with ODOMZO 800 mg.

In the BOLT study, musculoskeletal adverse reactions occurred in 68% (54/79) of patients treated with ODOMZO 200 mg daily with 9% (7/79) reported as Grade 3 or 4. The most frequent manifestations of musculoskeletal adverse reactions reported as an adverse event were muscle spasms (54%), musculoskeletal pain (32%), and myalgia (19%). Increased serum CK laboratory values occurred in 61% (48/79) of patients with 8% (6/79) of patients having Grade 3 or 4 serum CK elevations. Musculoskeletal pain and myalgia usually preceded serum CK elevation. Among patients with Grade 2 or higher CK elevations, the median time to onset was 12.9 weeks (range: 2 to 39 weeks) and the median time to resolution (to \leq Grade 1) was 12 days (95% CI: 8 to 14 days). ODOMZO was temporarily interrupted in 8% of patients or permanently discontinued in 8% of patients for musculoskeletal adverse reactions. The incidence of musculoskeletal adverse reactions requiring medical intervention (magnesium supplementation, muscle relaxants, and analgesics or narcotics) was 29%, including four patients (5%) who received intravenous hydration or were hospitalized.

Obtain baseline serum CK and creatinine levels prior to initiating ODOMZO, periodically during treatment, and as clinically indicated (e.g., if muscle symptoms are reported). Obtain serum creatinine and CK levels at least weekly in patients with musculoskeletal adverse reactions with concurrent serum CK elevation greater than 2.5 times ULN until resolution of clinical signs and symptoms. Depending on the severity of symptoms, temporary dose interruption or discontinuation may be required for musculoskeletal adverse reactions or serum CK elevation [see *Dosage and Administration* (2.2)]. Advise patients starting therapy with ODOMZO of the risk of muscle-related adverse reactions.

Advise patients to report promptly any new unexplained muscle pain, tenderness or weakness occurring during treatment or that persists after discontinuing ODOMZO.

5.3 Premature Fusion of the Epiphyses

Premature fusion of the epiphyses has been reported in pediatric patients exposed to ODOMZO and other Hh pathway inhibitors. Despite discontinuation of drug, cases of progressive of epiphyseal fusion have been reported in pediatric patients receiving other Hh pathway inhibitors. ODOMZO is not indicated for use in pediatric patients.

6 ADVERSE REACTIONS

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

- Musculoskeletal Adverse Reactions [*see Warnings and Precautions (5.2)*].

6.1 Clinical Trials Experience

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

The safety of ODOMZO was evaluated in BOLT, a randomized, double-blind, multiple cohort trial in which 229 patients received ODOMZO at either 200 mg (n=79) or 800 mg (n=150) daily. The frequency of common adverse reactions including muscle spasms, alopecia, dysgeusia, fatigue, nausea, decreased weight, decreased appetite, myalgia, pain, and vomiting was greater in patients treated with ODOMZO 800 mg as compared to 200 mg.

The data described below reflect exposure to ODOMZO 200 mg daily in 79 patients with locally advanced BCC (laBCC; n=66) or metastatic BCC (mBCC; n=13) enrolled in Study 1. Patients were followed for at least 18 months unless discontinued earlier. The median duration of treatment with ODOMZO was 11.0 months (range 1.3 to 33.5 months).

The study population characteristics were: median age of 67 years (range 25 to 92; 59% were ≥ 65 years), 61% male, and 90% white. The majority of patients had prior surgery (75%), radiotherapy (24%), systemic chemotherapy (4%), or topical or photodynamic therapies (18%) for treatment of BCC. No patient had prior exposure to a Hh pathway inhibitor.

ODOMZO was permanently discontinued in 34% of patients or temporarily interrupted in 20% of patients for adverse reactions. Adverse reactions reported in at least two patients that led to discontinuation of the drug were: muscle spasms, and dysgeusia (each 5%), asthenia, increased lipase, and nausea (each 4%), fatigue, decreased appetite, alopecia, and decreased weight (each 3%). Serious adverse reactions occurred in 18% of patients.

The most common adverse reactions occurring in $\geq 10\%$ of patients treated with ODOMZO 200 mg were muscle spasms, alopecia, dysgeusia, fatigue, nausea, musculoskeletal pain, diarrhea, decreased weight, decreased appetite, myalgia, abdominal pain, headache, pain, vomiting, and pruritus (Table 1).

The key laboratory abnormalities are described in [Table 2](#).

Table 1: Adverse Reactions Occurring in ≥10% of Patients in BOLT

| Adverse Reaction | ODOMZO 200 mg (N=79) | |
|--|------------------------------|--------------|
| | All Grades ^a % | Grade 3 % |
| Musculoskeletal and connective tissue | | |
| Muscle spasms | 54 | 3 |
| Musculoskeletal pain | 32 | 1 |
| Myalgia | 19 | 0 |
| Skin and subcutaneous tissue | | |
| Alopecia | 53 | 0 |
| Pruritus | 10 | 0 |
| Nervous system | | |
| Dysgeusia | 46 | 0 |
| Headache | 15 | 1 |
| General | | |
| Fatigue | 41 | 4 |
| Pain | 14 | 1 |
| Gastrointestinal | | |
| Nausea | 39 | 1 |
| Diarrhea | 32 | 1 |
| Abdominal pain | 18 | 0 |
| Vomiting | 11 | 1 |
| Investigations | | |
| Decreased weight | 30 | 3 |
| Metabolism and nutrition | | |
| Decreased appetite | 23 | 1 |

^a No Grade 4 adverse reactions were reported.

Table 2: Key Laboratory Abnormalities^a in BOLT

| Laboratory Test | ODOMZO 200 mg (N=79) | |
|--------------------------------------|-------------------------|-----------------|
| | All Grades % | Grades 3-4 % |
| Chemistry | | |
| Increased serum creatinine | 92 ^b | 0 |
| Increased serum creatine kinase (CK) | 61 | 8 |
| Hyperglycemia | 51 | 4 |
| Increased lipase | 43 | 13 |
| Increased alanine aminotransferase | 19 | 4 |
| Increased aspartate aminotransferase | 19 | 4 |
| Increased amylase | 16 | 1 |
| Hematology | | |
| Anemia | 32 | 0 |
| Lymphopenia | 28 | 3 |

^aBased on worst post-treatment laboratory value regardless of baseline; grading by CTCAE v4.03.

^bThe serum creatinine level remained within normal range in 76% (60/79) of patients.

Amenorrhea

Amenorrhea lasting for at least 18 months occurred in two of 14 pre-menopausal women treated with ODOMZO 200 mg or 800 mg once daily.

7 DRUG INTERACTIONS

7.1 Effects of Other Drugs on ODOMZO

Strong and Moderate CYP3A Inhibitors

Avoid concomitant administration of ODOMZO with strong CYP3A inhibitors [*see Clinical Pharmacology (12.3)*].

Avoid concomitant administration of ODOMZO with moderate CYP3A inhibitors. If a moderate CYP3A inhibitor must be used, administer the moderate CYP3A inhibitor for less than 14 days and monitor closely for adverse reactions particularly musculoskeletal adverse reactions [*see Clinical Pharmacology (12.3)*].

Strong and Moderate CYP3A Inducers

Avoid concomitant administration of ODOMZO with strong and moderate CYP3A inducers [*see Clinical Pharmacology (12.3)*].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Based on its mechanism of action and data from animal reproduction studies, ODOMZO can cause fetal harm when administered to a pregnant woman [see *Clinical Pharmacology* (12.1)]. There are no available data on the use of ODOMZO in pregnant women. In animal reproduction studies, oral administration of sonidegib during organogenesis at doses below the recommended human dose of 200 mg resulted in embryotoxicity, fetotoxicity, and teratogenicity in rabbits (see *Data*). Teratogenic effects observed included severe midline defects, missing digits, and other irreversible malformations. Advise pregnant women of the potential risk to a fetus. Report pregnancies to Sun Pharmaceutical Industries, Inc. at 1-800-406-7984.

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

Data

Animal Data

Daily oral administration of sonidegib to pregnant rabbits resulted in abortion, complete resorption of fetuses, or severe malformations at ≥ 5 mg/kg/day (approximately 0.05 times the recommended human dose based on AUC). Teratogenic effects included vertebral, distal limb and digit malformations, severe craniofacial malformations, and other severe midline defects. Skeletal variations were observed when maternal exposure to sonidegib was below the limit of detection.

8.2 Lactation

No data are available regarding the presence of sonidegib in human milk, the effects of the drug on the breastfed infant, or the effects of the drug on milk production. Because of the potential for serious adverse reactions in breastfed infants, advise women not to breastfeed during treatment with ODOMZO and for 20 months after the last dose.

8.3 Females and Males of Reproductive Potential

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

Pregnancy Testing

Verify the pregnancy status of females of reproductive potential prior to initiating ODOMZO treatment.

Contraception

Females

Advise females of reproductive potential to use effective contraception during treatment with ODOMZO and for at least 20 months after the last dose.

Males

It is not known if sonidegib is present in semen. Advise male patients to use condoms, even after a vasectomy, to avoid potential drug exposure to pregnant partners and female partners of reproductive potential during treatment with ODOMZO and for at least 8 months after the last dose.

Advise males not to donate semen during treatment with ODOMZO and for at least 8 months after the last dose.

Infertility

Based on findings from animal studies, female fertility may be compromised with ODOMZO [see *Nonclinical Toxicology (13.1)*].

8.4 Pediatric Use

The safety and effectiveness of ODOMZO have not been established in pediatric patients.

Epiphyseal disorders, including premature fusion of the epiphyses, have been reported in pediatric patients exposed to ODOMZO in a clinical trial. In some cases, pediatric patients treated with other Hh pathway inhibitors have experienced progression of epiphyseal fusion despite discontinuation of the Hh pathway inhibitor.

Juvenile Animal Data

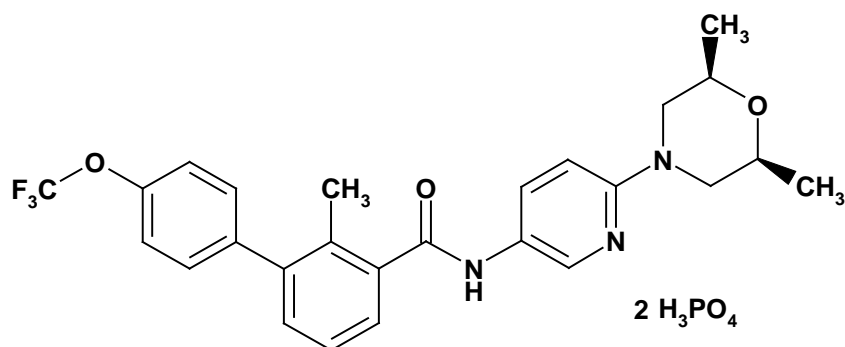
In a 5-week juvenile rat toxicology study, effects of sonidegib were observed in bone, teeth, reproductive tissues, and nerves at doses ≥ 10 mg/kg/day (approximately 1.2 times the recommended human dose based on AUC). Bone findings included thinning/closure of bone growth plate, decreased bone length and width, and hyperostosis. Findings in teeth included missing or fractured teeth, and atrophy. Reproductive tissue toxicity was evidenced by atrophy of testes, ovaries, and uterus, partial development of the prostate gland and seminal vesicles, and inflammation and aspermia of the epididymis. Nerve degeneration was also noted.

8.5 Geriatric Use

Of the 229 patients who received ODOMZO (79 patients receiving 200 mg daily and 150 patients receiving 800 mg daily) in Study 1, 54% were 65 years and older, while 28% were 75 years and older. No overall differences in effectiveness were observed between these patients and younger patients. There was a higher incidence of serious adverse reactions, Grade 3 and 4 adverse reactions, and adverse reactions requiring dose interruption or discontinuation in patients ≥ 65 years compared with younger patients; this was not attributable to an increase in any specific adverse event.

11 DESCRIPTION

Sonidegib is a Hh pathway inhibitor. The molecular formula for sonidegib phosphate is $C_{26}H_{26}F_3N_3O_3 \cdot 2H_3PO_4$. The molecular weight is 681.49 daltons. The chemical name is N-[6-(cis-2,6-dimethylmorpholin-4-yl)pyridine-3-yl]-2-methyl-4'-(trifluoromethoxy) [1,1'-biphenyl]-3-carboxamide diphosphate. The molecular structure is shown below:



Sonidegib phosphate is a white to off-white powder. Sonidegib freebase is practically insoluble.

ODOMZO (sonidegib) capsules for oral use contain 200 mg of sonidegib as the freebase (equivalent to 281 mg of diphosphate salt of sonidegib) and the following inactive ingredients: colloidal silicon dioxide, crospovidone, lactose monohydrate, magnesium stearate, poloxamer and sodium lauryl sulfate. The opaque pink hard gelatin capsule shell contains gelatin, red iron oxide, and titanium dioxide. The black printing ink contains ammonium hydroxide, black iron oxide, propylene glycol, and shellac.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Sonidegib is an inhibitor of the Hh pathway. Sonidegib binds to and inhibits Smoothened, a transmembrane protein involved in Hh signal transduction.

12.2 Pharmacodynamics

Cardiac Electrophysiology

At a dose of 800 mg once daily, sonidegib does not prolong the QTc interval.

12.3 Pharmacokinetics

Sonidegib exhibited dose-proportional increases in the area under the curve (AUC) and the maximal concentration (C_{\max}) over the dose range of 100 mg to 400 mg, but less than dose-proportional increases at doses greater than 400 mg. Steady-state was reached approximately 4 months after starting ODOMZO and the estimated accumulation at steady-state was 19-fold. Following a dose of 200 mg once daily, the estimated mean steady-state C_{\max} is 1030 ng/mL, AUC_{0-24h} is 22 $\mu\text{g}\cdot\text{h/mL}$ and minimal concentration (C_{\min}) is 890 ng/mL.

Absorption

Less than 10% of an oral dose of ODOMZO is absorbed. Following the administration of a single ODOMZO dose (100 mg to 3000 mg) under fasted conditions in patients with cancer, the median time-to-peak concentration (T_{\max}) was 2 to 4 hours.

Effect of Food

A high-fat meal (approximately 1000 calories with 50% of calories from fat) increased exposure to sonidegib (geometric mean AUC_{inf} and C_{\max}) by 7.4- to 7.8-fold [see *Dosage and Administration* (2.1)].

Distribution

The estimated apparent steady-state volume of distribution (V_{ss}/F) was 9,166 L. Sonidegib was greater than 97% bound to human plasma proteins in vitro and the binding was concentration independent. In vitro studies suggested that sonidegib is not a substrate of P-glycoprotein, MRP2 or BCRP.

Elimination

The elimination half-life ($t_{1/2}$) of sonidegib estimated from population pharmacokinetic (PK) modeling was approximately 28 days.

Metabolism

Sonidegib is primarily metabolized by CYP3A. The main circulating compound was unchanged sonidegib (36% of circulating radioactivity).

Excretion

Sonidegib and its metabolites are eliminated primarily by the hepatic route. Of the absorbed dose, approximately 70% was eliminated in the feces and 30% was eliminated in the urine. Unchanged sonidegib was not detectable in the urine.

Specific Populations

Age, body weight, hepatic impairment (Child-Pugh A, B and C), mild to moderate renal impairment (creatinine clearance 30 to 89 mL/min) and sex had no clinically meaningful effect on sonidegib steady-state exposure.

Racial or Ethnic Groups

A cross study comparison suggests that geometric mean AUC_{inf} of sonidegib is 1.7-fold higher in Japanese healthy subjects compared to Western healthy subjects (Whites and Blacks) following a single 200 mg dose of ODOMZO.

Drug Interaction Studies

Effects of CYP3A Inhibitors on Sonidegib

Strong CYP3A inhibitor: The geometric mean sonidegib AUC_{0-10d} increased by 2.2-fold and the C_{max} increased by 1.5-fold when ODOMZO at a dose of 800 mg was taken with ketoconazole compared to ODOMZO alone [see *Drug Interactions (7.1)*]. The geometric mean sonidegib steady-state AUC_{0-24h} would similarly increase in cancer patients taking ODOMZO 200 mg once daily when coadministered with a strong CYP3A inhibitor for 14 days.

Moderate CYP3A inhibitor: The geometric mean sonidegib steady-state AUC_{0-24h} would increase 1.8-fold when ODOMZO 200 mg once daily is coadministered with a moderate CYP3A inhibitor (erythromycin) for 14 days and would increase 2.8-fold when ODOMZO 200 mg once daily is coadministered with a moderate CYP3A inhibitor (erythromycin) for 4 months.

Effects of CYP3A Inducers on Sonidegib

Strong CYP3A inducer: The geometric mean sonidegib AUC_{0-10d} decreased by 72% and the C_{max} decreased by 54% when ODOMZO at a dose of 800 mg was taken with rifampicin compared to ODOMZO alone [see *Drug Interactions (7.1)*].

Moderate CYP3A inducer: The geometric mean sonidegib steady-state AUC_{0-24h} would decrease 56% in cancer patients taking ODOMZO 200 mg once daily when coadministered with a moderate CYP3A inducer (efavirenz) for 14 days and would decrease 69% when coadministered with a moderate CYP3A inducer (efavirenz) for 4 months [see *Drug Interactions (7.1)*].

Effect of Sonidegib on Cytochrome P450 Enzymes and Transporters

In vitro studies suggested that sonidegib inhibits CYP2B6 and CYP2C9 and it does not induce CYP1A2, CYP2B6 or CYP3A expression or activity.

In vitro studies suggested that sonidegib inhibits BCRP, but not P-glycoprotein, MRP2, OATP1B1, OATP1B3, OAT1, OAT3, OCT1 or OCT2.

Effects of Acid Reducing Agents on Sonidegib

No clinically meaningful effect on sonidegib exposure was observed when ODOMZO at dose of 200 mg was coadministered with esomeprazole, a proton pump inhibitor.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenicity studies with sonidegib have not been performed.

Sonidegib was not mutagenic in the in vitro bacterial reverse mutation (Ames) assay and was not clastogenic or aneugenic in the in vitro human chromosome aberration assay or in vivo rat bone marrow micronucleus assay.

Sonidegib resulted in a lack of fertility when administered to female rats at ≥ 20 mg/kg/day (approximately 1.3 times the recommended human dose based on body surface area (BSA)). A reduction of the number of pregnant females, an increase in the number of early resorptions, and a decrease in the number of viable fetuses was also noted at 2 mg/kg/day (approximately 0.12 times the recommended human dose based on BSA). In addition, in a 6 month repeat-dose toxicology study in rats, effects on female reproductive organs included atrophy of the uterus and ovaries at doses of 10 mg/kg (approximately ≥ 2 times the exposure in humans at the recommended dose of 200 mg based on AUC). No adverse effects on fertility were noted when male rats were administered sonidegib at doses up to 20 mg/kg/day, the highest dose tested.

13.2 Animal Toxicology and/or Pharmacology

Body tremors along with significant increases in creatine kinase were observed in rats administered oral sonidegib for 13 weeks or longer at ≥ 10 mg/kg/day (approximately ≥ 2 times the recommended human dose based on AUC).

14 CLINICAL STUDIES

The safety and effectiveness of ODOMZO were evaluated in a single, multicenter, double-blind, multiple cohort clinical trial conducted in patients with locally advanced basal cell carcinoma (laBCC) (n=194) or metastatic basal cell carcinoma (mBCC) (n=36) (BOLT, NCT01327053). Patients were randomized (2:1) to receive either ODOMZO 800 mg or 200 mg orally, once daily, until disease progression or intolerable toxicity. Randomization was stratified by stage of disease (locally advanced or metastatic), laBCC disease histology (aggressive vs. non-aggressive), and geographic region. Patients with laBCC were required to have lesions for which radiotherapy was contraindicated or inappropriate (e.g., Gorlin syndrome or limitations because of location of tumor), that had recurred after radiotherapy, that were unresectable or for which surgical resection would result in substantial deformity, or that had recurred after prior surgical resection.

The major efficacy outcome measure of the trial was objective response rate (ORR) as determined by blinded central review according to modified Response Evaluation Criteria in Solid Tumors (mRECIST) for patients with laBCC or RECIST version 1.1 for patients with mBCC. Duration of response (DoR), determined by blinded central review, was a key secondary outcome measure.

For patients with laBCC, the evaluation of tumor response was based on a composite assessment that integrated tumor measurements obtained by radiographic assessments of target lesions (per RECIST 1.1), digital clinical photography, and histopathology assessments (via punch biopsies). All modalities used must have demonstrated absence of tumor to achieve a composite assessment of complete response (CR). Response by digital clinical photography was evaluated by World Health Organization (WHO) adapted criteria [partial response (PR): $\geq 50\%$ decrease in the sum of the product of perpendicular diameters (SPD) of the lesions, CR: disappearance of all lesions, progressive disease (PD): $\geq 25\%$ increase in the SPD of the lesions]. Multiple punch biopsies of target lesions were performed to confirm a CR or when a response assessment was confounded by presence of lesion ulceration, cyst, and or scarring/fibrosis.

A total of 66 patients randomized to ODOMZO 200 mg daily had laBCC. Three of these patients had a diagnosis of Gorlin Syndrome. The demographic characteristics of the 66 patients with laBCC were: median age of 67 years (range: 25 to 92 years; 58% were ≥ 65 years); 58% male, 89% white, and ECOG performance status of 0 (67%). Seventy-six percent of patients had prior therapy for treatment of BCC; this included surgery (73%), radiotherapy (18%), and topical/photodynamic therapies (21%). Approximately half of these patients (56%) had aggressive histology.

Patients with laBCC randomized to receive ODOMZO 200 mg daily were followed for at least 30 months unless discontinued earlier. The ORR was 56% (95% confidence interval: 43, 68), consisting of 3 (5%) complete responses and 34 (52%) partial responses. A pre-specified sensitivity analysis using an alternative definition for complete response, defined as at least a PR according to MRI and/or photography and no evidence of tumor on biopsy of the residual lesion, yielded a CR rate of 21%. The median duration of response was 26.1 months (95% CI: 10.1, not reached).

A total of 128 patients randomized to ODOMZO 800 mg daily had laBCC. Twelve of these patients had a diagnosis of Gorlin Syndrome. There was no evidence of better antitumor activity (ORR) among patients with laBCC randomized to receive ODOMZO 800 mg daily and followed for at least 30 months unless discontinued earlier.

16 HOW SUPPLIED/STORAGE AND HANDLING

Each ODOMZO capsule has an opaque pink color with 'SONIDEGIB 200MG' printed on the capsule body and 'NVR' printed on the cap in black ink. ODOMZO capsules are supplied as follows:

Bottle of 30 capsules

NDC 47335-303-83

Store at 25°C (77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature].

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling ([Medication Guide](#)).

Embryo-Fetal Toxicity [see *Warnings and Precautions* (5.1) and *Use in Specific Populations* (8.1, 8.3)].

Females of Reproductive Potential

- Advise female patients of the potential risk to a fetus. Advise female patients and female partners of male patients to contact their healthcare provider with a known or suspected pregnancy.
- Advise females of reproductive potential to use effective contraception during treatment with ODOMZO and for at least 20 months after the last dose.
- Advise females who may have been exposed to ODOMZO during pregnancy, either directly or through seminal fluid, to contact Sun Pharmaceutical Industries Inc. at 1-800-406-7984.

Males

- Advise males, even those with prior vasectomy, to use condoms, to avoid potential drug exposure in both pregnant partners and female partners of reproductive potential during treatment with ODOMZO and for at least 8 months after the last dose.

Blood Donation

- Advise patients not to donate blood or blood products while taking ODOMZO and for 20 months after stopping treatment.

Musculoskeletal Adverse Reactions

Advise patients to contact their healthcare provider immediately for new or worsening signs or symptoms of muscle toxicity, dark urine, decreased urine output, or the inability to urinate [see *Warnings and Precautions* (5.2)].

Administration Instructions

Advise patients to take ODOMZO on an empty stomach, at least 1 hour before or 2 hours after a meal [see *Dosage and Administration* (2.1)].

Lactation

Advise women not to breastfeed during treatment with ODOMZO and for up to 20 months after the last dose [see *Use in Specific Populations* (8.2)].

Manufactured for Sun Pharma Global FZE by:

Patheon Inc.
Mississauga, Ontario L5N 7K9, Canada

Distributed by:

Sun Pharmaceutical Industries, Inc.
Cranbury, NJ 08512

ODOMZO is a registered trademark of Sun Pharma Global FZE.

MEDICATION GUIDE
ODOMZO® (o-DOM-zo)
(sonidegib)
capsules

What is the most important information I should know about ODOMZO?

ODOMZO can cause your baby to die before it is born (be stillborn) or cause your baby to have severe birth defects.

For females who can become pregnant:

- You should talk to your healthcare provider about the risks of ODOMZO to your unborn child.
- Your healthcare provider will do a pregnancy test before you start taking ODOMZO.
- In order to avoid pregnancy, you should use birth control during treatment, and for at least 20 months after your final dose of ODOMZO. Talk to your healthcare provider about what birth control method is right for you during this time.
- Talk to your healthcare provider right away if you have unprotected sex or if you think your birth control has failed.
- Tell your healthcare provider right away if you become pregnant or think that you may be pregnant.

For males:

- It is not known if ODOMZO is present in semen. Do not donate semen while you are taking ODOMZO and for at least 8 months after your final dose.
- You should always use a condom, even if you have had a vasectomy, during sex with female partners who are pregnant or who are able to become pregnant, during treatment with ODOMZO and for at least 8 months after your final dose to protect your female partner from being exposed to ODOMZO.
- Tell your healthcare provider right away if your partner becomes pregnant or thinks she is pregnant while you are taking ODOMZO.

Exposure to ODOMZO during pregnancy:

If you think that you or your female partner may have been exposed to ODOMZO during pregnancy, talk to your healthcare provider right away. If you become pregnant during treatment with ODOMZO, you or your healthcare provider should report your pregnancy to Sun Pharmaceutical Industries, Inc. at 1-800-406-7984.

What is ODOMZO?

ODOMZO is a prescription medicine used to treat adults with a type of skin cancer, called basal cell carcinoma, that has come back following surgery or radiation or that cannot be treated with surgery or radiation.

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

What should I tell my healthcare provider before taking ODOMZO?

Before you take ODOMZO, tell your healthcare provider if you:

- have muscle pain or spasms, or have a history of a muscle disorder called rhabdomyolysis or myopathy
- have any other medical conditions
- **are pregnant or plan to become pregnant.** See “What is the most important information I should know about ODOMZO?”
- **are breastfeeding or plan to breastfeed.** It is not known if ODOMZO passes into your breast milk. Do not breastfeed during treatment and for 20 months after your final dose of ODOMZO. Talk to your healthcare provider about the best way to feed your

baby during this time.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

How should I take ODOMZO?

- Take ODOMZO exactly as your healthcare provider tells you.
- Take ODOMZO 1 time each day.
- Take ODOMZO at least 1 hour before or 2 hours after a meal.
- If you miss a dose, skip the missed dose. Take your next dose as scheduled.

What should I avoid while taking ODOMZO?

- Do not donate blood or blood products while you are taking ODOMZO and for 20 months after your final dose.
- Do not donate semen while taking ODOMZO and for at least 8 months after your final dose.

What are possible side effects of ODOMZO?

ODOMZO can cause serious side effects, including:

- See **“What is the most important information I should know about ODOMZO?”**
- **Muscle Problems.** Muscle spasms and muscle pain are common with ODOMZO, but can also sometimes be symptoms of serious muscle problems. ODOMZO can increase your risk of muscle pain and, rarely a serious condition caused by injury to the muscles (rhabdomyolysis) that can lead to kidney damage. Tell your healthcare provider right away if you develop any new or worsening muscle spasms, pain or tenderness, dark urine, or decreased amount of urine during treatment with ODOMZO.

Your healthcare provider should do a blood test to check for muscle problems and to check your kidney function before you start taking ODOMZO, during treatment, and if you develop muscle problems.

The most common side effects of ODOMZO include:

- | | | |
|----------------------|---------------------------------|---------------|
| • hair loss | • change in taste | • tiredness |
| • nausea | • diarrhea | • weight loss |
| • decreased appetite | • stomach area (abdominal) pain | • headache |
| • vomiting | • itching | |

ODOMZO can cause absence of menstrual periods (amenorrhea) in females who are able to become pregnant. It is not known if amenorrhea is permanent. Talk to your healthcare provider if you have concerns about fertility.

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

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 ODOMZO?

- Store ODOMZO at room temperature between 68°F to 77°F (20°C to 25°C).

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

General information about the safe and effective use of ODOMZO

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

What are the ingredients in ODOMZO?

Active ingredient: sonidegib

Inactive ingredients: colloidal silicon dioxide, crospovidone, lactose monohydrate, magnesium stearate, poloxamer, and sodium lauryl sulfate. The capsule shell contains gelatin, red iron oxide, and titanium dioxide. The black printing ink contains ammonium hydroxide, black iron oxide, propylene glycol, and shellac.

Manufactured for Sun Pharma Global FZE by: Patheon Inc., Mississauga, Ontario L5N 7K9, Canada.

Distributed by: Sun Pharmaceutical Industries, Inc., Cranbury, NJ 08512. For more information, go to www.odomzo.com or call 1-800-818-4555.

ODOMZO is a registered trademark of Sun Pharma Global FZE.

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

Revised 05/2019

PLR-00100