

TEMOZOLOMIDE - temozolomide capsule

Rising Pharma Holdings, Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

TEMOZOLOMIDE capsules for oral use

Initial U.S. Approval: 1999

-----RECENT MAJOR CHANGES-----

Indications and Usage (1.2)	9/2023
Dosage and Administration (2.1, 2.2, 2.3, 2.4)	9/2023
Contraindications (4)	9/2023
Warnings and Precautions (5.1, 5.2, 5.4, 5.5, 5.6)	9/2023

-----INDICATIONS AND USAGE-----

Temozolomide is an alkylating drug indicated for the treatment of adults with:

- Newly diagnosed glioblastoma concomitantly with radiotherapy and then as maintenance treatment. (1.1)
- Anaplastic astrocytoma. (1.2)
 - Adjuvant treatment of adults with newly diagnosed anaplastic astrocytoma. (1.2)
 - Treatment of adults with refractory anaplastic astrocytoma. (1.2)

-----DOSAGE AND ADMINISTRATION-----

- Administer orally. (2.4)
- Newly Diagnosed Glioblastoma:
 - 75 mg/m² once daily for 42 to 49 days concomitant with focal radiotherapy followed by initial maintenance dose of 150 mg/m² once daily for Days 1 to 5 of each 28-day cycle for 6 cycles. May increase maintenance dose to 200 mg/m² for Cycles 2 to 6 based on toxicity. (2.1)
 - Provide *Pneumocystis* pneumonia (PCP) prophylaxis during concomitant phase and continue in patients who develop lymphopenia until resolution to Grade 1 or less. (2.1)
- Adjuvant Treatment of Newly Diagnosed Anaplastic Astrocytoma: Beginning 4 weeks after the end of radiotherapy, administer temozolomide orally in a single dose on days 1 to 5 of a 28-day cycle for 12 cycles. The recommended dosage for Cycle 1 is 150 mg/m² per day and for Cycles 2 to 12 is 200 mg/m² if patient experienced no or minimal toxicity in Cycle 1. (2.2)
- Refractory Anaplastic Astrocytoma: Initial dose of 150 mg/m² once daily on Days 1 to 5 of each 28-day cycle. (2.2)

-----DOSAGE FORMS AND STRENGTHS-----

- Capsules: 5 mg, 20 mg, 100 mg, 140 mg, 180 mg, and 250 mg. (3)

-----CONTRAINDICATIONS-----

- History of serious hypersensitivity to temozolomide or any other ingredients in temozolomide capsules and dacarbazine. (4)

-----WARNINGS AND PRECAUTIONS-----

- Myelosuppression: Monitor absolute neutrophil count (ANC) and platelet count prior to each cycle and during treatment. Geriatric patients and women have a higher risk of developing myelosuppression. (5.1, 8.5)
- Hepatotoxicity: Fatal and severe hepatotoxicity have been reported. Perform liver tests at baseline, midway through the first cycle, prior to each subsequent cycle, and approximately 2 to 4 weeks after the last dose of temozolomide. (5.2)
- *Pneumocystis* Pneumonia (PCP): Closely monitor all patients, particularly those receiving steroids, for the development of lymphopenia and PCP. (5.3)
- Secondary Malignancies: Myelodysplastic syndrome and secondary malignancies, including myeloid leukemia, have been observed. (5.4)
- Embryo-Fetal Toxicity: Can cause fetal harm. Advise females of reproductive potential of the potential risk to a fetus and to use effective contraception. Advise male patients with pregnant partners or female partners of reproductive potential to use condoms. (5.5, 8.1, 8.3)

- Exposure to Opened Capsules: Temozolomide capsules should not be opened, chewed, or dissolved but should be swallowed whole with a glass of water. (5.6)

ADVERSE REACTIONS

- The most common adverse reactions ($\geq 20\%$) are: alopecia, fatigue, nausea, vomiting, headache, constipation, anorexia, and convulsions. (6.1)
- The most common Grade 3 to 4 hematologic laboratory abnormalities ($\geq 10\%$) in patients with anaplastic astrocytoma are: decreased lymphocytes, decreased platelets, decreased neutrophils, and decreased leukocytes. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Rising Pharma Holdings, Inc. at 1-844-874-7464 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

USE IN SPECIFIC POPULATIONS

- Lactation: Advise not to breastfeed. (8.2)

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

Revised: 7/2024

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Newly Diagnosed Glioblastoma

Temozolomide capsules are indicated for the treatment of adults with newly diagnosed glioblastoma, concomitantly with radiotherapy and then as maintenance treatment.

1.2 Anaplastic Astrocytoma

Temozolomide capsules are indicated for the:

- adjuvant treatment of adults with newly diagnosed anaplastic astrocytoma;
- treatment of adults with refractory anaplastic astrocytoma.

2 DOSAGE AND ADMINISTRATION

2.1 Monitoring to Inform Dosage and Administration

Prior to dosing, withhold temozolomide capsules until patients have an absolute neutrophil count (ANC) of $1.5 \times 10^9/L$ or greater and a platelet count of $100 \times 10^9/L$ or greater.

For concomitant radiotherapy, obtain a complete blood count prior to initiation of treatment and weekly during treatment.

For the 28-day treatment cycles, obtain a complete blood count prior to treatment on

Day 1 and on Day 22 of each cycle. Perform complete blood counts weekly until recovery if the ANC falls below $1.5 \times 10^9/L$ and the platelet count falls below $100 \times 10^9/L$.

For concomitant use with focal radiotherapy, obtain a complete blood count weekly and as clinically indicated.

2.2 Recommended Dosage and Dosage Modifications for Newly Diagnosed Glioblastoma

Administer temozolomide capsules once daily for 42 to 49 consecutive days during the concomitant use phase with focal radiotherapy, and then once daily on Days 1 to 5 of each 28-day cycle for 6 cycles during the maintenance use phase.

Provide *Pneumocystis pneumonia* (PCP) prophylaxis during the concomitant use phase and continue in patients who develop lymphopenia until resolution to Grade 1 or less [see *Warnings and Precautions* (5.3)].

Concomitant Use Phase:

The recommended dosage of temozolomide capsules is 75 mg/m^2 once daily for 42 to 49 days in combination with focal radiotherapy. Focal radiotherapy includes the tumor bed or resection site with a 2 to 3 cm margin.

Other administration schedules have been used.

Obtain a complete blood count weekly. The recommended dosage modifications due to adverse reactions during concomitant use phase are provided in **Table 1**.

TABLE 1: Dosage Modifications Due to Adverse Reactions During Concomitant Use Phase

Adverse Reaction	Interruption	Discontinuation
Absolute Neutrophil Count	Withhold temozolomide capsules if ANC is greater than or equal to $0.5 \times 10^9/L$ and less than $1.5 \times 10^9/L$. Resume temozolomide capsules at the same dose when ANC is greater than or equal to $1.5 \times 10^9/L$.	Discontinue temozolomide capsules if ANC is less than $0.5 \times 10^9/L$.
Platelet Count	Withhold temozolomide capsules if platelet count is greater than or equal to $10 \times 10^9/L$ and less than $100 \times 10^9/L$. Resume temozolomide capsules at the same dose when platelet count is greater than or equal to $100 \times 10^9/L$.	Discontinue temozolomide capsules if platelet count is less than $10 \times 10^9/L$.
Non-hematological Adverse Reaction (except for alopecia, nausea, vomiting)	Withhold temozolomide capsules if Grade 2 adverse reaction occurs. Resume temozolomide capsules at the same dose when resolution to Grade 1 or less.	Discontinue temozolomide capsules if Grade 3 or 4 adverse reaction occurs.

Single Agent Maintenance Use Phase:

Beginning 4 weeks after concomitant use phase completion, administer temozolomide capsules once daily on Days 1 to 5 of each 28-day cycle for 6 cycles. The recommended dosage of temozolomide capsules in the maintenance use phase is:

- Cycle 1: 150 mg/m² per day on days 1 to 5.
- Cycles 2 to 6: May increase to 200 mg/m² per day on days 1 to 5 before starting Cycle 2 if no dosage interruptions or discontinuations are required (Table 1). If the dose is not escalated at the onset of Cycle 2, **do not** increase the dose for Cycles 3 to 6.

Obtain a complete blood count on Day 22 and then weekly until the ANC is above 1.5 x 10⁹/L and the platelet count is above 100 x 10⁹/L. Do not start the next cycle until the ANC and platelet count exceed these levels.

The recommended dosage modifications due to adverse reactions during the maintenance use phase are provided in **Table 2**.

If temozolomide capsules are withheld, reduce the dose for the next cycle by 50 mg/m² per day. Permanently discontinue temozolomide capsules in patients who are unable to tolerate a dose of 100 mg/m² per day.

TABLE 2: Dosage Modifications Due to Adverse Reactions During Maintenance and Adjuvant Treatment

Adverse Reactions	Interruption and Dose Reduction	Discontinuation
Absolute Neutrophil Count	Withhold temozolomide capsules if ANC less than $1 \times 10^9/L$. When ANC is above $1.5 \times 10^9/L$, resume temozolomide capsules at reduced dose for the next cycle.	Discontinue temozolomide capsules if unable to tolerate a dose of 100 mg/m^2 per day.
Platelet Count	Withhold temozolomide capsules if platelet less than $50 \times 10^9/L$. When platelet count is above $100 \times 10^9/L$, resume temozolomide capsules at reduced dose for the next cycle.	Discontinue temozolomide capsules if unable to tolerate a dose of 100 mg/m^2 per day.
Nonhematological Adverse Reactions (except for alopecia, nausea, vomiting)	Withhold temozolomide capsules if Grade 3 adverse reaction occurs. When resolved to Grade 1 or less, resume temozolomide capsules at reduced dose for the next cycle.	Discontinue temozolomide capsules if recurrent Grade 3 adverse reaction occurs after dose reduction, if Grade 4 adverse reaction occurs, or if unable to tolerate a dose of 100 mg/m^2 per day.

2.3 Recommended Dosage and Dosage Modifications for Anaplastic Astrocytoma

Adjuvant Treatment of Newly Diagnosed Anaplastic Astrocytoma

Beginning 4 weeks after the end of radiotherapy, administer temozolomide capsules orally in a single dose on days 1 to 5 of a 28-day cycle for 12 cycles. The recommended dosage of temozolomide capsules is:

- Cycle 1: 150 mg/m^2 per day on days 1 to 5.
- Cycles 2 to 12: 200 mg/m^2 per day on days 1 to 5 if patient experienced no or minimal toxicity in Cycle 1. If the dose was not escalated at the onset of Cycle 2, **do not** increase the dose during Cycles 3 to 6.

The recommended complete blood count testing and dosage modifications due to adverse reactions during adjuvant treatment are provided above and in Table 2 [see *Dosage and Administration (2.2)*].

Refractory Anaplastic Astrocytoma

The recommended initial dosage of temozolomide capsules is 150 mg/m^2 once daily on

Days 1 to 5 of each 28-day cycle. Increase the temozolomide dose to 200 mg/m² per day if the following conditions are met at the nadir and on Day 1 of the next cycle:

- ANC is greater than or equal to $1.5 \times 10^9/L$, and
- Platelet count is greater than or equal to $100 \times 10^9/L$.

Continue temozolomide capsules until disease progression or unacceptable toxicity.

Obtain a complete blood count on Day 22 and then weekly until the ANC is above $1.5 \times 10^9/L$ and the platelet count is above $100 \times 10^9/L$. Do not start the next cycle until the ANC and platelet count exceed these levels.

If the ANC is less than $1 \times 10^9/L$ or the platelet count is less than $50 \times 10^9/L$ during any cycle, reduce the temozolomide dose for the next cycle by 50 mg/m² per day.

Permanently discontinue temozolomide capsules in patients who are unable to tolerate a dose of 100 mg/m² per day.

2.4 Preparation and Administration

Temozolomide is a hazardous drug. Follow applicable special handling and disposal procedures.¹

Temozolomide capsules

Take temozolomide capsules at the same time each day. Administer temozolomide capsules consistently with respect to food (fasting vs. nonfasting) [see *Clinical Pharmacology (12.3)*]. To reduce nausea and vomiting, take temozolomide capsules on an empty stomach or at bedtime and consider antiemetic therapy prior to and following temozolomide capsule administration.

Swallow temozolomide capsules whole with water. Advise patients not to open, chew, or dissolve the contents of the capsules [see *Warnings and Precautions (5.6)*].

If capsules are accidentally opened or damaged, take precautions to avoid inhalation or contact with the skin or mucous membranes. In case of powder contact, wash the affected area with water immediately.

3 DOSAGE FORMS AND STRENGTHS

- Temozolomide capsules, USP for oral administration

-5 mg capsules have opaque white bodies with opaque light green caps. The capsule body is printed with "604" in black ink and the cap is printed with "LP" in black ink.

-20 mg capsules have opaque white bodies with opaque yellow caps. The capsule body is printed with "605" in black ink and the cap is printed with "LP" in black ink.

-100 mg capsules have opaque white bodies with opaque pink caps. The capsule body is printed with "606" in black ink and the cap is printed with "LP" in black ink.

-140 mg capsules have opaque white bodies with opaque blue caps. The capsule body is printed with "607" in black ink and the cap is printed with "LP" in black ink.

-180 mg capsules have opaque white bodies with opaque swedish orange caps. The

capsule body is printed with "608" in black ink and the cap is printed with "LP" in black ink.

-250 mg capsules have opaque white bodies with opaque white caps. The capsule body is printed with "609" in black ink and the cap is printed with "LP" in black ink.

4 CONTRAINDICATIONS

Temozolomide is contraindicated in patients with a history of serious hypersensitivity reactions to:

- temozolomide or any other ingredients in temozolomide capsules; and
- dacarbazine, since both temozolomide and dacarbazine are metabolized to the same active metabolite 5-(3-methyltriazene-1-yl)-imidazole-4-carboxamide.

Reactions to temozolomide have included anaphylaxis [see *Adverse Reactions (6.2)*].

5 WARNINGS AND PRECAUTIONS

5.1 Myelosuppression

Myelosuppression, including pancytopenia, leukopenia, and anemia, some with fatal outcomes, have occurred with temozolomide [see *Adverse Reactions (6.1, 6.2)*].

In MK-7365-006, myelosuppression usually occurred during the first few cycles of therapy and was generally not cumulative. The median nadirs occurred at 26 days for platelets (range: 21 to 40 days) and 28 days for neutrophils (range: 1 to 44 days). Approximately 10% of patients required hospitalization, blood transfusion, or discontinuation of therapy due to myelosuppression. Geriatric patients and women have been shown in clinical trials to have a higher risk of developing myelosuppression.

Obtain a complete blood count and monitor ANC and platelet counts before initiation of treatment and as clinically indicated during treatment. When temozolomide is used in combination with radiotherapy, obtain a complete blood count prior to initiation of treatment, weekly during treatment, and as clinically indicated [see *Dosage and Administration (2.1, 2.2, 2.3)*].

For severe myelosuppression, withhold temozolomide and then resume at same or reduced dose, or permanently discontinue, based on occurrence [see *Dosage and Administration (2.1, 2.2, 2.3)*].

5.2 Hepatotoxicity

Fatal and severe hepatotoxicity have been reported in patients receiving temozolomide. Perform liver tests at baseline, midway through the first cycle, prior to each subsequent cycle, and approximately two to four weeks after the last dose of temozolomide.

5.3 *Pneumocystis* Pneumonia

Pneumocystis pneumonia (PCP) has been reported in patients receiving temozolomide. The risk of PCP is increased in patients receiving steroids or with longer treatment regimens of temozolomide.

For patients with newly diagnosed glioblastoma, provide PCP prophylaxis for all patients during the concomitant phase. Continue PCP prophylaxis in patients who experience lymphopenia, until resolution to Grade 1 or less [*see Dosage and Administration (2.1)*].

Monitor all patients receiving temozolomide for the development of lymphopenia and PCP.

5.4 Secondary Malignancies

The incidence of secondary malignancies is increased in patients treated with temozolomide-containing regimens. Cases of myelodysplastic syndrome and secondary malignancies, including myeloid leukemia, have been observed following temozolomide administration.

5.5 Embryo-Fetal Toxicity

Based on findings from animal studies and its mechanism of action, temozolomide can cause fetal harm when administered to a pregnant woman. Adverse developmental outcomes have been reported in both pregnant patients and pregnant partners of male patients. Oral administration of temozolomide to rats and rabbits during the period of organogenesis resulted in embryoletality and polymalformations at doses less than the maximum human dose based on body surface area.

Advise pregnant women and females of reproductive potential of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment with temozolomide and for 6 months after the last dose. Because of potential risk of genotoxic effects on sperm, advise male patients with female partners of reproductive potential to use condoms during treatment with temozolomide and for 3 months after the last dose. Advise male patients not to donate semen during treatment with temozolomide and for 3 months after the last dose [*see Use in Specific Populations (8.1, 8.3)*].

5.6 Exposure to Opened Capsules

Advise patients not to open, chew or dissolve the contents of the temozolomide capsules. Swallow capsules whole with a glass of water. If a capsule becomes damaged, avoid contact of the powder contents with skin or mucous membranes. In case of powder contact, wash affected area with water immediately [*see Dosage and Administration (2.4)*]. If temozolomide capsules must be opened or the contents must be dissolved, this should be done by a professional trained in safe handling of hazardous drugs using appropriate equipment and safety procedures.

6 ADVERSE REACTIONS

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

- Myelosuppression [*see Warnings and Precautions (5.1)*]

- Hepatotoxicity [see *Warnings and Precautions (5.2)*]
- *Pneumocystis* Pneumonia [see *Warnings and Precautions (5.3)*]
- Secondary Malignancies [see *Warnings and Precautions (5.4)*]

6.1 Clinical Trials Experience

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

Newly Diagnosed Glioblastoma

The safety of temozolomide was evaluated in study MK-7365-051 [see *Clinical Studies (14.1)*].

Severe or life-threatening adverse reactions occurred in 49% of patients treated with temozolomide; the most common were fatigue (13%), convulsions (6%), headache (5%), and thrombocytopenia (5%).

The most common adverse reactions ($\geq 20\%$) in patients treated with temozolomide were alopecia, fatigue, nausea, anorexia, headache, constipation, and vomiting.

Table 3 summarizes the adverse reactions in MK-7365-051.

TABLE 3: Adverse Reactions (≥10%) in Patients with Newly Diagnosed Glioblastoma

Adverse Reactions	Concomitant Use Phase				Maintenance Use Phase	
	Radiation Therapy and Temozolomide N=288*		Radiation Therapy Alone N=285		Temozolomide N=224	
	All Grades (%)	Grade ≥3 (%)	All Grades (%)	Grades ≥3 (%)	All Grades (%)	Grade ≥3 (%)
Skin and Subcutaneous Tissue						
Alopecia	69	0	63	0	55	0
Rash	19	1	15	0	13	1
General						
Fatigue	54	7	49	5	61	9
Anorexia	19	1	9	<1	27	1
Headache	19	2	17	4	23	4
Gastrointestinal System						
Nausea	36	1	16	<1	49	1
Vomiting	20	<1	6	<1	29	2
Constipation	18	1	6	0	22	0
Diarrhea	6	0	3	0	10	1
Central and Peripheral Nervous System						
Convulsions	6	3	7	3	11	3

* One patient who was randomized to radiation therapy-only arm received radiation therapy and temozolomide.

NOS = not otherwise specified.

Note: Grade 5 (fatal) adverse reactions are included in the Grade ≥3 column.

Clinically relevant adverse reactions in <10% of patients are presented below:

Central & Peripheral Nervous System: memory impairment, confusion

Eye: vision blurred

Gastrointestinal System: stomatitis, abdominal pain

General: weakness, dizziness

Immune System: allergic reaction

Injury: radiation injury not otherwise specified

Musculoskeletal System: arthralgia

Platelet, Bleeding, & Clotting: thrombocytopenia

Psychiatric: insomnia

Respiratory System: coughing, dyspnea

Special Senses Other: taste perversion

Skin & Subcutaneous Tissue: dry skin, pruritus, erythema

When laboratory abnormalities and adverse reactions were combined, Grade 3 or Grade 4 neutrophil abnormalities including neutropenic reactions were observed in 8% of patients, and Grade 3 or Grade 4 platelet abnormalities including thrombocytopenic reactions were observed in 14% of patients.

Newly Diagnosed Anaplastic Astrocytoma

The safety of temozolomide for the adjuvant treatment of adults with newly diagnosed anaplastic astrocytoma was derived from published literature [see *Clinical Studies (14.2)*]. The safety of temozolomide for the adjuvant treatment of patients with newly diagnosed anaplastic astrocytoma was consistent with the known safety profile of temozolomide.

Refractory Anaplastic Astrocytoma

The safety of temozolomide was evaluated in study MK-7365-006 [see *Clinical Studies (14.2)*].

The most common adverse reactions ($\geq 20\%$) were nausea, vomiting, headache, fatigue, constipation, and convulsions.

Tables 4 and **5** summarize the adverse reactions and hematological laboratory abnormalities in MK-7365-006.

TABLE 4: Adverse Reactions ($\geq 10\%$) in Patients with Refractory Anaplastic Astrocytoma

Adverse Reactions	Temozolomide N=158	
	All Reactions (%)	Grades 3-4 (%)
Gastrointestinal System		
Nausea	53	10
Vomiting	42	6
Constipation	33	1
Diarrhea	16	2
General		
Headache	41	6
Fatigue	34	4
Asthenia	13	6
Fever	13	2
Central and Peripheral Nervous System		
Convulsions	23	5
Hemiparesis	18	6
Dizziness	12	1
Coordination abnormal	11	1
Amnesia	10	4
Insomnia	10	0
Cardiovascular		
Edema peripheral	11	1
Resistance Mechanism		
Infection viral	11	0

Clinically relevant adverse reactions in $<10\%$ of patients are presented below:

Central and Peripheral Nervous System: paresthesia, somnolence, paresis, urinary incontinence, ataxia, dysphasia, convulsions local, gait abnormal, confusion

Endocrine: adrenal hypercorticism

Gastrointestinal System: abdominal pain, anorexia

General: back pain

Metabolic: weight increase

Musculoskeletal System: myalgia

Psychiatric: anxiety, depression

Reproductive Disorders: breast pain female

Respiratory System: upper respiratory tract infection, pharyngitis, sinusitis, coughing

Skin & Appendages: rash, pruritus

Urinary System: urinary tract infection, micturition increased frequency

Vision: diplopia, vision abnormal*

* This term includes blurred vision; visual deficit; vision changes; and vision troubles.

TABLE 5: Grade 3 to 4 Hematologic Laboratory Abnormalities That Worsened from Baseline in Patients with Refractory Anaplastic Astrocytoma

	Temozolomide [*], [†] (%)
Decreased lymphocytes	55
Decreased platelets	19
Decreased neutrophils	14
Decreased leukocytes	11
Decreased hemoglobin	4

* Change from Grade 0 to 2 at baseline to Grade 3 or 4 during treatment.

† Denominator range= 142, 158

Hematological Toxicities for Advanced Gliomas

In clinical trial experience with 110 to 111 females and 169 to 174 males (depending on measurements), females experienced higher rates of Grade 4 neutropenia (ANC $<0.5 \times 10^9/L$) and thrombocytopenia ($<20 \times 10^9/L$) than males in the first cycle of therapy (12% vs. 5% and 9% vs. 3%, respectively).

In the entire safety database for which hematologic data exist (N=932), 7% (4/61) and 10% (6/63) of patients >70 years experienced Grade 4 neutropenia or thrombocytopenia in the first cycle, respectively. For patients ≤ 70 years, 7% (62/871) and 6% (48/879) experienced Grade 4 neutropenia or thrombocytopenia in the first cycle, respectively. Pancytopenia, leukopenia, and anemia also occurred.

6.2 Postmarketing Experience

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

Dermatologic: Toxic epidermal necrolysis and Stevens-Johnson syndrome.

Immune System: Hypersensitivity reactions, including anaphylaxis. Erythema multiforme, which resolved after discontinuation of temozolomide and, in some cases, recurred upon rechallenge.

Hematopoietic: Prolonged pancytopenia, which may result in aplastic anemia and fatal outcomes.

Hepatobiliary: Fatal and severe hepatotoxicity, elevation of liver enzymes, hyperbilirubinemia, cholestasis, and hepatitis.

Infections: Serious opportunistic infections, including some cases with fatal outcomes, with bacterial, viral (primary and reactivated), fungal, and protozoan organisms.

Pulmonary: Interstitial pneumonitis, pneumonitis, alveolitis, and pulmonary fibrosis.

Endocrine: Diabetes insipidus.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Based on findings from animal studies and its mechanism of action [see *Clinical Pharmacology (12.1)*], temozolomide can cause fetal harm when administered to a pregnant woman. Available postmarketing reports describe cases of spontaneous abortions and congenital malformations, including polymalformations with central nervous system, facial, cardiac, skeletal, and genitourinary system anomalies with exposure to temozolomide during pregnancy. These cases report similar adverse developmental outcomes to those observed in animal studies. Administration of temozolomide to rats and rabbits during the period of organogenesis caused numerous external, internal, and skeletal malformations at doses less than the maximum human dose based on body surface area (see *Data*). Advise pregnant women of the potential risk to a fetus.

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

Data

Animal Data

Five consecutive days of oral administration of temozolomide at doses of 75 and 150 mg/m² (0.38 and 0.75 times the human dose of 200 mg/m²) in rats and rabbits, respectively, during the period of organogenesis (Gestation Days 8 to 12) caused numerous malformations of the external and internal organs and skeleton in both species. In rabbits, temozolomide at the 150 mg/m² dose (0.75 times the human dose of 200 mg/m²) caused embryoletality as indicated by increased resorptions.

8.2 Lactation

There are no data on the presence of temozolomide or its metabolites in human milk, the effects on a breastfed child, or the effects on milk production. Because of the potential for serious adverse reactions, including myelosuppression from temozolomide in the breastfed children, advise women not to breastfeed during treatment with temozolomide and for 1 week after the last dose.

8.3 Females and Males of Reproductive Potential

Temozolomide can cause fetal harm when administered to a pregnant woman [see *Use in Specific Populations (8.1)*].

Pregnancy Testing

Verify pregnancy status in females of reproductive potential prior to initiating temozolomide [see *Use in Specific Populations (8.1)*].

Contraception

Females

Advise females of reproductive potential to use effective contraception during treatment with temozolomide and for 6 months after the last dose.

Males

Because of the potential for embryofetal toxicity and genotoxic effects on sperm cells, advise male patients with pregnant partners or female partners of reproductive potential to use condoms during treatment with temozolomide and for 3 months after the last

dose [see *Use in Specific Populations (8.1)*, *Nonclinical Toxicology (13.1)*].

Advise male patients not to donate semen during treatment with temozolomide and for 3 months after the last dose.

Infertility

Temozolomide may impair male fertility [see *Nonclinical Toxicology (13.1)*]. Limited data from male patients show changes in sperm parameters during treatment with temozolomide; however, no information is available on the duration or reversibility of these changes.

8.4 Pediatric Use

Safety and effectiveness of temozolomide have not been established in pediatric patients. Safety and effectiveness of temozolomide capsules were assessed, but not established, in 2 open-label studies in pediatric patients aged 3 to 18 years. In one study, 29 patients with recurrent brain stem glioma and 34 patients with recurrent high-grade astrocytoma were enrolled. In a second study conducted by the Children's Oncology Group (COG), 122 patients were enrolled, including patients with medulloblastoma/PNET (29), high grade astrocytoma (23), low grade astrocytoma (22), brain stem glioma (16), ependymoma (14), other CNS tumors (9), and non-CNS tumors (9). The adverse reaction profile in pediatric patients was similar to adults.

8.5 Geriatric Use

In MK-7365-051, 15% of patients with newly diagnosed glioblastoma were 65 years and older. This study did not include sufficient numbers of patients aged 65 years and older to determine differences in effectiveness from younger patients. No overall differences in safety were observed between patients ≥ 65 years and younger patients.

The CATNON trial did not include sufficient numbers of patients aged 65 years and older to determine differences in safety or effectiveness when compared to younger patients.

In MK-7365-006, 4% of patients with refractory anaplastic astrocytoma were 70 years and older. This study did not include sufficient numbers of patients aged 70 years and older to determine differences in effectiveness from younger patients. Patients 70 years and older had a higher incidence of Grade 4 neutropenia (25%) and Grade 4 thrombocytopenia (20%) in the first cycle of therapy than patients less than 70 years of age [see *Warnings and Precautions (5.1)*, *Adverse Reactions (6.1)*].

In the entire safety database for which hematologic data exist (N=932), 7% (4/61) and 10% (6/63) of patients >70 years experienced Grade 4 neutropenia or thrombocytopenia in the first cycle, respectively. For patients ≤ 70 years, 7% (62/871) and 6% (48/879) experienced Grade 4 neutropenia or thrombocytopenia in the first cycle, respectively. Pancytopenia, leukopenia, and anemia also occurred.

8.6 Renal Impairment

No dosage adjustment is recommended for patients with creatinine clearance (CL_{cr}) of 36 to 130 mL/min/m² [see *Clinical Pharmacology (12.3)*]. The recommended dose of temozolomide has not been established for patients with severe renal impairment (CL_{cr} <36 mL/min/m²) or for patients with end-stage renal disease on dialysis.

8.7 Hepatic Impairment

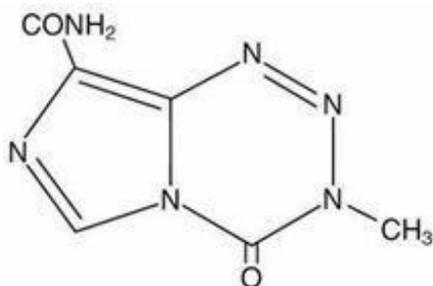
No dosage adjustment is recommended for patients with mild to moderate hepatic impairment (Child Pugh class A and B) [see *Clinical Pharmacology* (12.3)]. The recommended dose of temozolomide has not been established for patients with severe hepatic impairment (Child-Pugh class C).

10 OVERDOSAGE

Dose-limiting toxicity was myelosuppression and was reported with any dose but is expected to be more severe at higher doses. An overdose of 2000 mg per day for 5 days was taken by one patient and the adverse reactions reported were pancytopenia, pyrexia, multi-organ failure, and death. There are reports of patients who have taken more than 5 days of treatment (up to 64 days), with adverse reactions reported including myelosuppression, which in some cases was severe and prolonged, and infections and resulted in death. In the event of an overdose, monitor complete blood count and provide supportive measures as necessary.

11 DESCRIPTION

Temozolomide is an alkylating drug. The chemical name of temozolomide is 3,4-dihydro-3-methyl-4-oxoimidazo[5,1-d]-as-tetrazine-8-carboxamide. The structural formula of temozolomide is:



The material is a white to light tan/light pink powder with a molecular formula of C₆H₆N₆O₂ and a molecular weight of 194.15. The molecule is stable at acidic pH (<5) and labile at pH >7; hence temozolomide can be administered orally and intravenously. The prodrug, temozolomide, is rapidly hydrolyzed to the active 5-(3-methyltriazene-1-yl)imidazole-4-carboxamide (MTIC) at neutral and alkaline pH values, with hydrolysis taking place even faster at alkaline pH.

Temozolomide capsules, USP:

Each capsule for oral use contains either 5 mg, 20 mg, 100 mg, 140 mg, 180 mg, or 250 mg of temozolomide.

The inactive ingredients for Temozolomide Capsules, USP are as follows:

Temozolomide Capsules 5 mg: lactose anhydrous, colloidal silicon dioxide, sodium starch glycolate, tartaric acid, and stearic acid.

Temozolomide Capsules 20 mg: lactose anhydrous, colloidal silicon dioxide, sodium starch glycolate, tartaric acid, and stearic acid.

Temozolomide Capsules 100 mg: lactose anhydrous, colloidal silicon dioxide, sodium starch glycolate, tartaric acid, and stearic acid.

Temozolomide Capsules 140 mg: lactose anhydrous, colloidal silicon dioxide, sodium starch glycolate, tartaric acid, and stearic acid.

Temozolomide Capsules 180 mg: lactose anhydrous, colloidal silicon dioxide, sodium starch glycolate, tartaric acid, and stearic acid.

Temozolomide Capsules 250 mg: lactose anhydrous, colloidal silicon dioxide, sodium starch glycolate, tartaric acid, and stearic acid.

The body of the capsules is made of gelatin and is opaque white. The cap is also made of gelatin, and the colors vary based on the dosage strength. The capsule body and cap are imprinted with pharmaceutical branding ink, which contains shellac, dehydrated alcohol, isopropyl alcohol, butyl alcohol, propylene glycol, purified water, strong ammonia solution, potassium hydroxide, and ferric oxide.

Temozolomide Capsules 5 mg: The green cap contains gelatin, titanium dioxide, yellow iron oxide, and FD&C Blue 2.

Temozolomide Capsules 20 mg: The yellow cap contains gelatin, titanium dioxide, and yellow iron oxide.

Temozolomide Capsules 100 mg: The pink cap contains gelatin, titanium dioxide, and yellow iron oxide, and red iron oxide.

Temozolomide Capsules 140 mg: The blue cap contains gelatin, titanium dioxide, yellow iron oxide and FD&C Blue #2.

Temozolomide Capsules 180 mg: The orange cap contains gelatin, titanium dioxide and red iron oxide.

Temozolomide Capsules 250 mg: The white cap contains gelatin, titanium dioxide.

FDA approved dissolution test specifications differ from USP.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Temozolomide is not directly active but undergoes rapid nonenzymatic conversion at physiologic pH to the reactive compound 5-(3-methyltriazene-1-yl)-imidazole-4-carboxamide (MTIC). The cytotoxicity of MTIC is thought to be primarily due to DNA alkylation, mainly at the O⁶ and N⁷ positions of guanine, which causes DNA double strand breaks and results in programmed cell death.

12.2 Pharmacodynamics

Temozolomide exposure-response relationships and the time course of pharmacodynamic response are unknown.

12.3 Pharmacokinetics

Following a single oral dose of 150 mg/m², the mean C_{max} is 7.5 mcg/mL for temozolomide and 282 ng/mL for MTIC. The mean AUC is 23.4 mcg·hr/mL for temozolomide and 864 ng·hr/mL for MTIC.

Following a single 90-minute intravenous infusion of 150 mg/m², the mean C_{max} is 7.3 mcg/mL for temozolomide and 276 ng/mL for MTIC. The mean AUC is 24.6 mcg·hr/mL for temozolomide and 891 ng·hr/mL for MTIC.

Temozolomide exhibits linear kinetics over the therapeutic dosing range of 75 mg/m²/day to 250 mg/m²/day.

Absorption

The median T_{max} is 1 hour.

Effect of Food

The mean temozolomide C_{max} and AUC decreased by 32% and 9%, respectively, and median T_{max} increased by 2-fold (from 1 to 2.25 hours) when temozolomide capsules were administered after a modified high-fat breakfast (587 calories comprised of 1 fried egg, 2 strips of bacon, 2 slices of toast, 2 pats of butter, and 8 oz whole milk).

Distribution

Temozolomide has a mean (CV%) apparent volume of distribution of 0.4 L/kg (13%). The mean percent bound of drug-related total radioactivity is 15%.

Elimination

Clearance of temozolomide is approximately 5.5 L/hr/m² and the mean elimination half-life is 1.8 hours.

Metabolism

Temozolomide is spontaneously hydrolyzed at physiologic pH to the active species, MTIC and to temozolomide acid metabolite. MTIC is further hydrolyzed to 5-amino-imidazole-4-carboxamide (AIC), which is known to be an intermediate in purine and nucleic acid biosynthesis, and to methylhydrazine, which is believed to be the active alkylating species. Cytochrome P450 enzymes play a minor role in the metabolism of temozolomide and MTIC. Relative to the AUC of temozolomide, the exposure to MTIC and AIC is 2.4% and 23%, respectively.

Excretion

Approximately 38% of the administered temozolomide total radioactive dose is recovered over 7 days: 38% in urine and 0.8% in feces. The majority of the recovered radioactivity in urine is unchanged temozolomide (6%), AIC (12%), temozolomide acid metabolite (2.3%), and unidentified polar metabolite(s) (17%).

Specific Populations

No clinically significant differences in the pharmacokinetics of temozolomide were

observed based on age (range: 19 to 78 years), gender, smoking status (smoker vs. non-smoker), creatinine clearance (CLcr) of 36 to 130 mL/min/m², or mild to moderate hepatic impairment (Child Pugh class A and B). The pharmacokinetics of temozolomide has not been studied in patients with CLcr <36 mL/min/m², end-stage renal disease on dialysis, or severe hepatic impairment (Child-Pugh class C).

Drug Interaction Studies

Clinical Studies and Model-Informed Approaches

No clinically significant differences in the pharmacokinetics of temozolomide or MTIC were observed when co-administered with ranitidine.

No clinically significant differences in the clearance of temozolomide or MTIC were predicted when co-administered with the following drugs: valproic acid, dexamethasone, prochlorperazine, phenytoin, carbamazepine, ondansetron, histamine-2-receptor antagonists, or phenobarbital.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Temozolomide is carcinogenic in rats at doses less than the maximum recommended human dose. Temozolomide induced mammary carcinomas in both males and females at doses 0.13 to 0.63 times the maximum human dose (25 to 125 mg/m²) when administered orally on 5 consecutive days every 28 days for 6 cycles. Temozolomide also induced fibrosarcomas of the heart, eye, seminal vesicles, salivary glands, abdominal cavity, uterus, and prostate, carcinomas of the seminal vesicles, schwannomas of the heart, optic nerve, and hardierian gland, and adenomas of the skin, lung, pituitary, and thyroid at doses 0.5 times the maximum daily dose. Mammary tumors were also induced following 3 cycles of temozolomide at the maximum recommended daily dose.

Temozolomide is a mutagen and a clastogen. In a reverse bacterial mutagenesis assay (Ames assay), temozolomide increased revertant frequency in the absence and presence of metabolic activation. Temozolomide was clastogenic in human lymphocytes in the presence and absence of metabolic activation.

Temozolomide impairs male fertility. Temozolomide caused syncytial cells/immature sperm formation at doses of 50 and 125 mg/m² (0.25 and 0.63 times the human dose of 200 mg/m²) in rats and dogs, respectively, and testicular atrophy in dogs at 125 mg/m².

13.2 Animal Toxicology and/or Pharmacology

Toxicology studies in rats and dogs identified a low incidence of hemorrhage, degeneration, and necrosis of the retina at temozolomide doses equal to or greater than 125 mg/m² (0.63 times the human dose of 200 mg/m²). These changes were most commonly seen at doses where mortality was observed.

14 CLINICAL STUDIES

14.1 Newly Diagnosed Glioblastoma

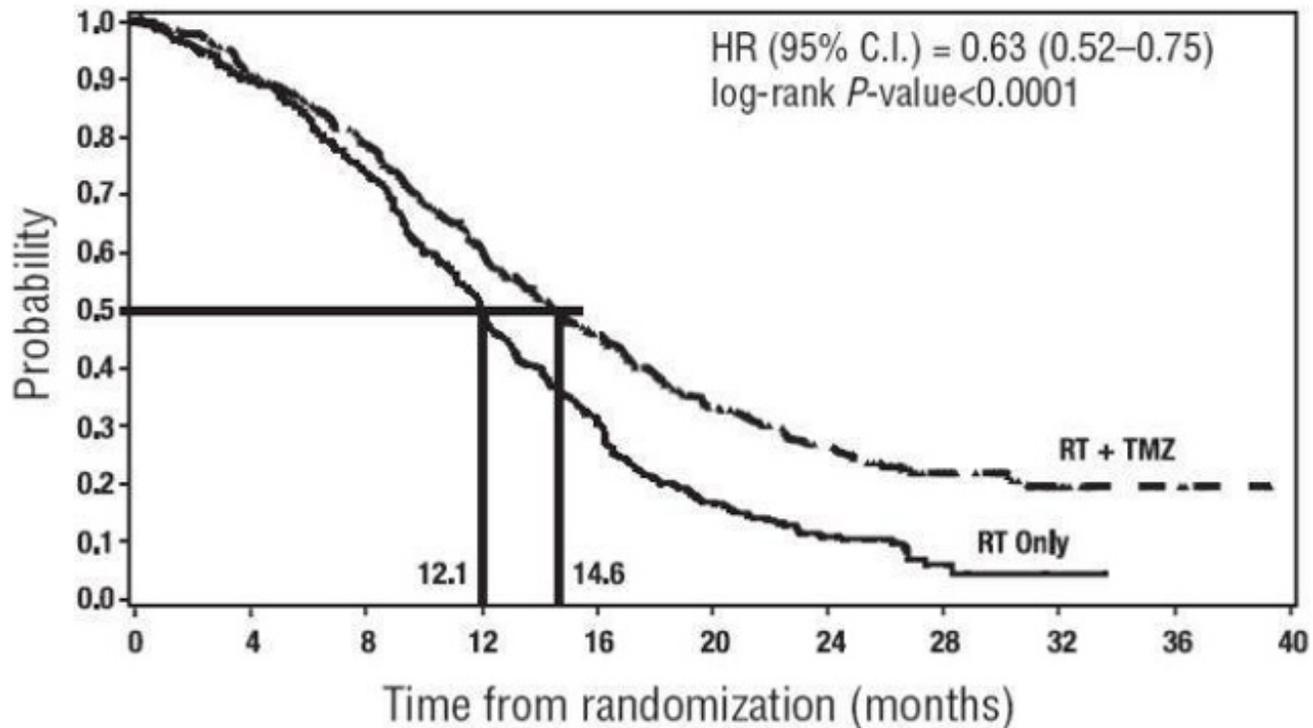
The efficacy of temozolomide was evaluated in MK-7365-051 (NCT00006353), a randomized (1:1), multicenter, open-label trial. Eligible patients were required to have newly diagnosed glioblastoma. Patients were randomized to receive either radiation therapy alone or concomitant temozolomide 75 mg/m² once daily starting the first day of radiation therapy and continuing until the last day of radiation therapy for 42 days (with a maximum of 49 days), followed by temozolomide 150 mg/m² or 200 mg/m² once daily on Days 1 to 5 of each 28-day cycle, starting 4 weeks after the end of radiation therapy and continuing for 6 cycles. In both arms, focal radiation therapy was delivered as 60 Gy/30 fractions and included radiation to the tumor bed or resection site with a 2- to 3-cm margin. PCP prophylaxis was required during the concomitant phase regardless of lymphocyte count and continued until recovery of lymphocyte count to Grade 1 or less. The major efficacy outcome measure was overall survival.

A total of 573 patients were randomized, 287 to temozolomide and radiation therapy and 286 to radiation therapy alone. At the time of disease progression, temozolomide was administered as salvage therapy in 161 patients of the 282 (57%) in the radiation therapy alone arm and 62 patients of the 277 (22%) in the temozolomide and radiation therapy arm.

The addition of concomitant and maintenance temozolomide to radiation therapy for the treatment of patients with newly diagnosed glioblastoma showed a statistically significant improvement in overall survival compared to radiotherapy alone (**Figure 1**). The hazard ratio (HR) for overall survival was 0.63 (95% CI: 0.52, 0.75) with a log-rank $P < 0.0001$ in favor of the temozolomide arm. The median overall survival was 14.6 months in the temozolomide arm and 12.1 months for radiation therapy alone arm.

FIGURE 1: Kaplan-Meier Curves for Overall Survival (ITT Population) in Patients with Newly Diagnosed Glioblastoma in MK-7365-051

ITT Population: Overall Survival



14.2 Anaplastic Astrocytoma

Newly Diagnosed Anaplastic Astrocytoma

The efficacy of temozolomide for the adjuvant treatment of newly diagnosed anaplastic astrocytoma was derived from studies of temozolomide in the published literature. Temozolomide was evaluated in CATNON (NCT00626990), a randomized, open-label, multicenter trial, where the major efficacy outcome measure was overall survival.

Refractory Anaplastic Astrocytoma

The efficacy of temozolomide was evaluated in Study MK-7365-006, a single-arm, multicenter trial. Eligible patients had anaplastic astrocytoma at first relapse and a baseline Karnofsky performance status (KPS) of 70 or greater. Patients had previously received radiation therapy and may also have previously received a nitrosourea with or without other chemotherapy. Fifty-four patients had disease progression on prior therapy with both a nitrosourea and procarbazine and their malignancy was considered refractory to chemotherapy (refractory anaplastic astrocytoma population). Temozolomide capsules were given on Days 1 to 5 of each 28-day cycle at a starting dose of 150 mg/m²/day. If ANC was $\geq 1.5 \times 10^9$ /L and platelet count was $\geq 100 \times 10^9$ /L at the nadir and on Day 1 of the next cycle, the temozolomide dose was increased to 200 mg/m²/day. The major efficacy outcome measure was progression-free survival at 6 months and the additional efficacy outcome measures were overall survival and overall response rate.

In the refractory anaplastic astrocytoma population (n=54), the median age was 42 years (range: 19 to 76); 65% were male; and 72% had a KPS of >80. Sixty-three percent of patients had surgery other than a biopsy at the time of initial diagnosis. Of those

patients undergoing resection, 73% underwent a subtotal resection and 27% underwent a gross total resection. Eighteen percent of patients had surgery at the time of first relapse. The median time from initial diagnosis to first relapse was 13.8 months (range: 4.2 months to 6.3 years).

In the refractory anaplastic astrocytoma population, the overall response rate (CR+PR) was 22% (12 of 54 patients) and the complete response rate was 9% (5 of 54 patients). The median duration of all responses was 50 weeks (range: 16 to 114 weeks) and the median duration of complete responses was 64 weeks (range: 52 to 114 weeks). In this population, progression-free survival at 6 months was 45% (95% CI: 31%, 58%) and progression-free survival at 12 months was 29% (95% CI: 16%, 42%). Median progression-free survival was 4.4 months. Overall survival at 6 months was 74% (95% CI: 62%, 86%) and 12-month overall survival was 65% (95% CI: 52%, 78%). Median overall survival was 15.9 months.

15 REFERENCES

1. "OSHA Hazardous Drugs." OSHA. <http://www.osha.gov/hazardous-drugs>

16 HOW SUPPLIED/STORAGE AND HANDLING

Temozolomide is a hazardous drug. Follow applicable special handling and disposal procedures.¹

Temozolomide Capsules, USP are supplied in HDPE plastic bottles with child-resistant polypropylene caps containing the following capsule strengths:

Temozolomide Capsules, USP 5 mg: have opaque white bodies with opaque light green caps. The capsule body is printed with "604" in black ink and the cap is printed with "LP" in black ink. They are supplied as follows:

5 count: NDC 16571-816-51

14 count: NDC 16571-816-41

20 count: NDC 16571-816-02

Temozolomide Capsules, USP 20 mg: have opaque white bodies with opaque rich yellow caps. The capsule body is printed with "605" in black ink and the cap is printed with "LP" in black ink. They are supplied as follows:

5 count: NDC 16571-817-51

14 count: NDC 16571-817-41

20 count: NDC 16571-817-02

Temozolomide Capsules, USP 100 mg: have opaque white bodies with opaque pink caps. The capsule body is printed with "606" in black ink and the cap is printed with "LP" in black ink. They are supplied as follows:

5 count: NDC 16571-818-51

14 count: NDC 16571-818-41

20 count: NDC 16571-818-02

Temozolomide Capsules, USP 140 mg: have opaque white bodies with opaque powder blue caps. The capsule body is printed with "607" in black ink and the cap is printed with "LP" in black ink. They are supplied as follows:

5 count: NDC 16571-819-51

14 count: NDC 16571-819-41

20 count: NDC 16571-819-02

Temozolomide Capsules, USP 180 mg: have opaque white bodies with opaque swedish orange caps. The capsule body is printed with "608" in black ink and the cap is printed with "LP" in black ink. They are supplied as follows:

5 count: NDC 16571-820-51

14 count: NDC 16571-820-41

20 count: NDC 16571-820-02

Temozolomide Capsules, USP 250 mg: have opaque white bodies with opaque white caps. The capsule body is printed with "609" in black ink and the cap is printed with "LP" in black ink. They are supplied as follows:

5 count: NDC 16571-821-51

20 count: NDC 16571-821-02

Store Temozolomide Capsules 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 (Patient Information).

Myelosuppression

Inform patients that temozolomide capsules can cause low blood cell counts and the need for frequent monitoring of blood cell counts. Advise patients to contact their healthcare provider immediately for bleeding, fever, or other signs of infection [see *Warnings and Precautions (5.1)*].

Hepatotoxicity

Advise patients of the increased risk of hepatotoxicity and to contact their healthcare provider immediately for signs or symptoms of hepatotoxicity. Inform patients that they will have periodic liver enzyme tests during treatment and following the last dose of temozolomide capsules [see *Warnings and Precautions (5.2)*].

Pneumocystis Pneumonia

Advise patients of the increased risk of *Pneumocystis* pneumonia and to contact their healthcare provider immediately for new or worsening pulmonary symptoms. Inform patients that prophylaxis for *Pneumocystis* pneumonia may be needed [see *Dosage and Administration (2.1)*, *Warnings and Precautions (5.3)*].

Secondary Malignancies

Advise patients of the increased risk of myelodysplastic syndrome and secondary malignancies [see *Warnings and Precautions (5.4)*].

Exposure to Opened Capsules

Advise patient to not open, chew, or dissolve the capsules. If capsules are accidentally opened or damaged, advise patients to take rigorous precautions with capsule contents to avoid inhalation or contact with the skin or mucous membranes [see *Warnings and Precautions (5.6)*]. In case of powder contact, wash the affected area with water immediately [see *Dosage and Administration (2.4)*].

Embryo-Fetal Toxicity

Advise pregnant women and females of reproductive potential of the potential risk to a fetus. Advise females to inform their healthcare provider of a known or suspected pregnancy [see *Warnings and Precautions (5.5), Use in Specific Populations (8.1)*].

Advise females of reproductive potential to use effective contraception during treatment with temozolomide and for 6 months after the last dose [see *Use in Specific Populations (8.3)*].

Advise male patients with pregnant partners or female partners of reproductive potential to use condoms during treatment with temozolomide and for 3 months after the last dose [see *Use in Specific Populations (8.3), Nonclinical Toxicology (13.1)*].

Advise male patients not to donate semen during treatment with temozolomide and for 3 months after the last dose [see *Use in Specific Populations (8.3), Nonclinical Toxicology (13.1)*].

Lactation

Advise women not to breastfeed during treatment with temozolomide and for 1 week after the last dose [see *Use in Specific Populations (8.2)*].

Infertility

Advise males of reproductive potential that temozolomide may impair fertility [see *Use in Specific Populations (8.3), Nonclinical Toxicology (13.1)*].

Manufactured for:

Rising Pharma Holdings, Inc.
East Brunswick, NJ 08816

Made in India

Code No.: TS/DRUGS/24/2015

Revised: 07/2024
PIR82120-03

Patient Information

Temozolomide (te-moe-ZOE-loe-mide) Capsules, USP

What are temozolomide capsules?

Temozolomide capsules are a prescription medicine used to treat adults with certain brain cancer tumors.

It is not known if temozolomide capsules are safe and effective in children.

Do not take temozolomide capsules if you:

- have had an allergic reaction to temozolomide or any of the other ingredients in temozolomide capsules. See the end of this leaflet for a list of ingredients in temozolomide capsules. Symptoms of an allergic reaction with temozolomide capsules may include: a red itchy rash, or a severe allergic reaction, such as trouble breathing, swelling of the face, throat, or tongue, or severe skin reaction. If you are not sure, ask your healthcare provider.
- have had an allergic reaction to dacarbazine (DTIC), another cancer medicine.

Before taking or receiving temozolomide capsules, tell your healthcare provider about all of your medical conditions, including if you:

- have kidney problems
- have liver problems
- are pregnant or plan to become pregnant. **Temozolomide capsule can harm your unborn baby and cause birth defects.**

Females who can become pregnant:

- o You should not become pregnant during treatment with temozolomide capsules.
- o You should use an effective form of birth control (contraception) during treatment and for 6 months after your last dose of temozolomide capsules.
- o Your healthcare provider should do a pregnancy test to make sure that you are not pregnant before you start taking temozolomide capsules.
- o Tell your healthcare provider right away if you become pregnant or think you may be pregnant during treatment with temozolomide capsules.

Males with a female partner who is pregnant or who can become pregnant:

- o Use a condom for birth control (contraception) during treatment and for 3 months after taking your last dose of temozolomide capsules.
- o **Do not** donate semen during treatment and for 3 months after your last dose of temozolomide capsules.
- are breastfeeding or plan to breastfeed. It is not known if temozolomide passes into your breast milk. Do not breastfeed during treatment and for 1 week after your last dose of temozolomide capsules.

Tell your doctor about all the medicines you take, including prescription and non-prescription medicines, vitamins, and herbal supplements.

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.

How should I take temozolomide capsules?

Temozolomide may be taken 2 different ways:

- you may take temozolomide by mouth as a capsule, or
- you may receive temozolomide as an intravenous (IV) injection into your vein.

Your healthcare provider will decide the best way for you to take temozolomide.

- If your healthcare provider prescribes temozolomide capsules for you, take the capsules exactly as prescribed.

There are 2 common dosing schedules for taking or receiving temozolomide capsules depending on the type of brain cancer tumor that you have.

- People with certain brain cancer tumors take or receive temozolomide capsules:
 - 1 time each day for 42 to 49 days in a row, along with receiving radiation treatment. This is 1 cycle of treatment. After this, your healthcare provider may prescribe 6 more cycles of temozolomide as “maintenance” treatment. For each of these cycles, you take or receive temozolomide 1 time each day for 5 days in a row and then you stop taking it for the next 23 days. **This is a 28-day maintenance treatment cycle.**
- People with certain other brain cancer tumors take or receive temozolomide capsules:
 - 1 time each day for 5 days in a row only, and then stop taking it for the next 23 days. This is 1 cycle of treatment (28 days).
 - Your healthcare provider will watch your progress on temozolomide and decide how long you should take it.
- If your healthcare provider prescribes a treatment regimen that is different from the information in this leaflet, make sure you follow the instructions given to you by your healthcare provider.
- Your healthcare provider may change your dose of temozolomide, or tell you to stop temozolomide capsules for a short period of time or permanently if you have certain side effects.
- Your healthcare provider will decide how many treatment cycles of temozolomide that you will receive, depending on how you respond to and tolerate treatment.

Temozolomide capsules:

- Take temozolomide capsules exactly as your healthcare provider tells you to.
- Temozolomide capsules contain a white capsule body with a color cap and the colors vary based on the dosage strength. Your healthcare provider may prescribe more than 1 strength of temozolomide capsules for you, so it is important that you understand how to take your medicine the right way. Be sure that you understand exactly how many capsules you need to take on each day of your treatment, and what strengths to take. **This may be different whenever you start a new cycle.**
- **Do not take more temozolomide capsules than prescribed.**
- Talk to your healthcare provider or pharmacist before taking your dose if you are not sure how much temozolomide capsules to take. This will help to prevent taking too many temozolomide capsules and decrease your chances of getting serious side effects.
- Take each day’s dose of temozolomide capsules at one time, with a full glass of

water.

- Take temozolomide capsules at the same time each day.
- Take temozolomide capsules the same way each time, either with food or without food.
- **Swallow temozolomide capsules whole with water. Do not** open, chew, or dissolve the contents of the capsules.
- If temozolomide capsules are accidentally opened or damaged, be careful not to breathe in (inhale) the powder from the capsules or get the powder on your skin or mucous membranes (for example, in your nose or mouth). If contact with any of these areas happens, wash the area with water right away.
- To help reduce nausea and vomiting, try to take temozolomide capsules on an empty stomach or at bedtime. Your healthcare provider may prescribe medicine to help prevent or treat nausea, or other medicines to reduce side effects with temozolomide capsules.
- See your healthcare provider regularly to check your progress. Your healthcare provider will check you for side effects.
- If you take more temozolomide capsules than prescribed, call your healthcare provider or get emergency medical help right away.

What are the possible side effects of temozolomide capsules?

Temozolomide capsules can cause serious side effects, including:

- **Decreased blood cell counts.** Temozolomide capsules can affect your bone marrow and cause you to have decreased blood cell counts. Decreased white blood cell count, red blood cell count and platelet count are common with temozolomide capsules but it can also be severe and lead to death. Some people need to be hospitalized or need to receive transfusions to treat their decreased blood cell counts.
 - Your healthcare provider will do blood tests regularly to check your blood cell counts before you start and during treatment with temozolomide capsules.
 - Your healthcare provider may need to change the dose of temozolomide capsules or when you get it depending on your blood cell counts.
 - People who are age 70 or older and women have a higher risk for developing decreased blood cell counts during treatment with temozolomide capsules.
- **Liver problems. Liver problems can happen with temozolomide capsules and can sometimes be severe and lead to death.** Your healthcare provider will do blood tests to check your liver function before you start taking temozolomide capsules, during treatment, and about 2 to 4 weeks after your last dose of temozolomide capsules.
- ***Pneumocystis pneumonia (PCP)*.** PCP is an infection that people can get when their immune system is weak. Temozolomide capsules decreases white blood cells, which makes your immune system weaker and can increase your risk of getting PCP.
 - People who are taking steroid medicines or who stay on temozolomide capsules for a longer period of time may have an increased risk of getting PCP infection.
 - Anyone who takes temozolomide capsules will be watched carefully by their healthcare provider for low blood cell counts and this infection.
 - Tell your healthcare provider if you have any of the following signs and symptoms of PCP infection: shortness of breath, or fever, chills, dry cough.
- **Secondary Cancers.** Blood problems such as myelodysplastic syndrome (MDS) and new cancers (secondary cancers), including a certain kind of leukemia, can

happen in people who take temozolomide capsules. Your healthcare provider will monitor you for this.

Common side effects of temozolomide capsules include:

- hair loss
- feeling tired
- nausea and vomiting
- headache
- constipation
- loss of appetite
- convulsions

Temozolomide capsules can affect fertility in males and may affect your ability to father a child. Talk with your healthcare provider if fertility is a concern for you.

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

These are not all the possible side effects of temozolomide capsules. 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 temozolomide capsules?

- Store temozolomide capsules at room temperature between 68°F to 77°F (20°C to 25°C).
- **Keep temozolomide capsules and all medicines out of the reach of children.**

General information about the safe and effective use of temozolomide capsules.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use temozolomide capsules for a condition for which it was not prescribed. Do not give temozolomide capsules 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 temozolomide capsules that is written for health professionals.

For more information, contact Rising Pharma Holdings, Inc. at 1-844-874-7464.

What are the ingredients in temozolomide capsules?

Temozolomide capsules:

Active ingredient: temozolomide

Inactive ingredients: lactose anhydrous, colloidal silicon dioxide, sodium starch glycolate, tartaric acid, stearic acid.

The body of the capsules is made of gelatin and is opaque white. The cap is also made of gelatin, and the colors vary based on the dosage strength. The capsule body and cap are imprinted with pharmaceutical branding ink, which contains shellac, dehydrated alcohol, isopropyl alcohol, butyl alcohol, propylene glycol, purified water, strong ammonia, potassium hydroxide, and ferric oxide.

Temozolomide 5 mg: The green cap contains gelatin, titanium dioxide, yellow iron oxide, and FD&C Blue 2.

Temozolomide 20 mg: The yellow cap contains gelatin, titanium dioxide, and yellow iron oxide.

Temozolomide 100 mg: The pink cap contains gelatin, titanium dioxide, and yellow iron oxide, and red iron oxide.

Temozolomide 140 mg: The blue cap contains gelatin, titanium dioxide, yellow iron oxide and FD&C Blue #2.

Temozolomide 180 mg: The orange cap contains gelatin, titanium dioxide and red iron oxide.

Temozolomide 250 mg: The white cap contains gelatin, titanium dioxide.

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

Manufactured for:

Rising Pharma Holdings, Inc.
East Brunswick, NJ 08816

Made in India

Code No.: TS/DRUGS/24/2015

Revised: 03/2024

PILR82120-01

Temozolomide (te-moe-ZOE-loe-mide) Capsules, USP

PHARMACIST:

Dispense enclosed Patient Package Insert to each patient.

PHARMACIST INFORMATION SHEET

IMPORTANT DISPENSING INFORMATION

For every patient, dispense temozolomide capsules in its original package, making sure each container lists the strength per capsule and that patients take the appropriate number of capsules from each package. Please see the dispensing instructions below for more information.

What is temozolomide capsule? *[See Full Prescribing Information, Indications and Usage (1).]*

Temozolomide is an oral alkylating agent for the treatment of newly diagnosed glioblastoma multiforme and refractory anaplastic astrocytoma.

How is temozolomide capsule dosed? *[See Full Prescribing Information, Recommended Dosage and Dosage Modifications for Newly Diagnosed Glioblastoma (2.1), Recommended Dosage and Dosage Modifications for Refractory Anaplastic Astrocytoma (2.2).]*

The physician calculates the daily dose of temozolomide capsules for a given patient based on the patient's body surface area (BSA). Round off the resulting dose to the nearest 5 mg. An example of the dosing may be as follows: the initial daily dose of temozolomide capsules in milligrams is the BSA multiplied by mg/m²/day (e.g., a patient with a BSA of 1.84 is 1.84 x 75 mg = 138, or 140 mg/day). Adjust the dose for subsequent cycles according to nadir neutrophil and platelet counts in the previous cycle and at the time of initiating the next cycle.

How might the dose of temozolomide capsules be modified for Refractory Anaplastic Astrocytoma? *[See Full Prescribing Information, Recommended Dosage and Dosage Modifications for Refractory Anaplastic Astrocytoma (2.2).]*

The initial dose is 150 mg/m² orally once daily for 5 consecutive days per 28-day treatment cycle. Increase the temozolomide capsules dose to 200 mg/m²/day for 5 consecutive days per 28-day treatment cycle if both the nadir and day of dosing (Day 29, Day 1 of next cycle) absolute neutrophil counts (ANC) are greater than or equal to 1.5 x 10⁹/L (1,500/μL) and both the nadir and Day 29, Day 1 of next cycle platelet counts are greater than or equal to 100 x 10⁹/L (100,000/μL). During treatment, obtain a complete blood count on Day 22 (21 days after the first dose), and weekly until the ANC is above 1.5 x 10⁹/L (1,500/μL) and the platelet count exceeds 100 x 10⁹/L (100,000/μL). Do not start the next cycle of temozolomide until the ANC and platelet count exceed these levels. If the ANC falls to less than 1.0 x 10⁹/L (1,000/μL) or the platelet count is less than 50 x 10⁹/L (50,000/μL) during any cycle, reduce the dose for the next cycle by 50 mg/m². Permanently discontinue temozolomide capsules in patients who are unable to tolerate a dose of 100 mg/m² per day.

Patients should continue taking temozolomide capsules until their physician determines that their disease has progressed or until unacceptable side effects or toxicities occur. In the clinical trial, treatment could be continued for a maximum of 2 years, but the optimum duration of therapy is not known. Physicians may alter the treatment regimen for a given patient.

Dosing for Patients with Newly Diagnosed Glioblastoma Multiforme *[See Full Prescribing Information, Recommended Dosage and Dosage Modifications for Newly Diagnosed Glioblastoma (2.1).]*

Concomitant Phase Treatment Schedule

Administer temozolomide capsules orally at 75 mg/m² daily for 42 days concomitant with focal radiotherapy (60 Gy administered in 30 fractions), followed by maintenance temozolomide capsules for 6 cycles. No dose reductions are recommended; however, dose interruptions may occur based on patient tolerance. Continue the temozolomide

capsules dose throughout the 42-day concomitant period up to 49 days if all of the following conditions are met: absolute neutrophil count greater than or equal to $1.5 \times 10^9/L$, platelet count greater than or equal to $100 \times 10^9/L$, and nonhematological adverse reactions less than or equal to Grade 1 (except for alopecia, nausea and vomiting). During treatment, obtain a complete blood count weekly. Interrupt or discontinue temozolomide dosing during the concomitant phase according to the hematological and nonhematological toxicity criteria [see Table 1 in the Full Prescribing Information, Recommended Dosage and Dosage Modifications for Newly Diagnosed Glioblastoma (2.1)]. *Pneumocystis pneumonia* (PCP) prophylaxis is required during the concomitant administration of temozolomide capsules and radiotherapy, and should be continued in patients who develop lymphocytopenia until resolution to Grade 1 or less.

Maintenance Phase Treatment Schedule

Four weeks after completing the temozolomide capsules and radiotherapy phase, administer temozolomide for an additional 6 cycles of maintenance treatment. Dosage in Cycle 1 (maintenance) is 150 mg/m^2 once daily for 5 days followed by 23 days without treatment. At the start of Cycle 2, escalate the dose to 200 mg/m^2 , if the nonhematologic adverse reactions for Cycle 1 are Grade less than or equal to 2 (except for alopecia, nausea and vomiting), absolute neutrophil count (ANC) is greater than or equal to $1.5 \times 10^9/L$, and the platelet count is greater than or equal to $100 \times 10^9/L$. If the dose was not escalated at Cycle 2, do not escalate the dose in subsequent cycles. Maintain the dose at 200 mg/m^2 per day for the first 5 days of each subsequent cycle except if toxicity occurs.

During treatment, obtain a complete blood count on Day 22 (21 days after the first dose) and weekly until the ANC is above $1.5 \times 10^9/L$ ($1,500/\mu\text{L}$) and the platelet count exceeds $100 \times 10^9/L$ ($100,000/\mu\text{L}$). Do not start the next cycle of temozolomide capsules until the ANC and platelet count exceed these levels. Base dose reductions during the next cycle on the lowest blood counts and worst nonhematologic adverse reactions during the previous cycle. Apply dose reductions or discontinuations during the maintenance phase [see Table 2 in the Full Prescribing Information, Recommended Dosage and Dosage Modifications for Newly Diagnosed Glioblastoma (2.1)].

How is temozolomide capsules taken? [See Full Prescribing Information, Preparation and Administration, temozolomide capsules (2.3).]

Advise patients to take each day's dose with a full glass of water, preferably on an empty stomach or at bedtime. Taking the medication on an empty stomach or at bedtime may help ease nausea. If patients are also taking anti-nausea or other medications to relieve the side effects associated with temozolomide capsules, advise them to take these medications prior to and/or following administration of temozolomide capsules. Advise patients that temozolomide capsules should be swallowed whole and **NEVER CHEWED**. Advise patients that they **SHOULD NOT** open or split the capsules. If capsules are accidentally opened or damaged, advise patients to take rigorous precautions with the capsule contents to avoid inhalation or contact with the skin or mucous membranes. In case of powder contact, advise the patients to wash their hands. Advise patients to keep this medication away from children.

What should the patient avoid during treatment with temozolomide capsules? [See Full Prescribing Information, Use in Specific Populations, Pregnancy (8.1), Lactation (8.2), Females and Males of Reproductive Potential (8.3).]

There are no dietary restrictions for patients taking temozolomide capsules. Temozolomide capsules may affect testicular function and may cause birth defects. Advise male patients to exercise adequate birth control measures. Advise female patients to avoid becoming pregnant while receiving this drug. Advise pregnant women of the potential risk to the fetus. Advise females of reproductive potential to use effective contraception during treatment and for at least 6 months after the last dose. Advise males of reproductive potential to use condoms during treatment and for at least 3 months after the last dose. Advise male patients not to donate semen during treatment with temozolomide capsules and for at least 3 months after the final dose. It is not known whether temozolomide is excreted into breast milk. Because of the potential for serious adverse reactions in breastfed children, advise women not to breastfeed while taking temozolomide capsules and for at least 1 week after the last dose.

What are the side effects of temozolomide capsules? *[See Full Prescribing Information, Adverse Reactions (6).]*

Alopecia, fatigue, nausea, and vomiting are the most common side effects associated with temozolomide capsules. Noncumulative myelosuppression is the dose-limiting toxicity. Patients should be evaluated periodically by their physician to monitor blood counts.

Other commonly reported side effects reported by patients taking temozolomide capsules are headache, constipation, anorexia, and convulsions.

How are temozolomide capsules supplied? *[See Full Prescribing Information, How Supplied/Storage and Handling (16).]*

Temozolomide Capsules, USP are available in 5 mg, 20 mg, 100 mg, 140 mg, 180 mg, and 250 mg strengths. The capsules contain a white capsule body with a color cap, and the colors vary based on the dosage strength.

Temozolomide Capsule, USP Strength	Color
5 mg	Green Cap
20 mg	Yellow Cap
100 mg	Pink Cap
140 mg	Blue Cap
180 mg	Swedish Orange Cap
250 mg	White Cap

The 5 mg, 20 mg, 100 mg, 140 mg, 180 mg capsule strengths are available in 5 count, 14 count and 20 count packages. The 250-mg capsule strength is available in 5 count and 20 count packages.

How is temozolomide capsule dispensed?

Dispense each strength of temozolomide capsules in its original package (one strength per one container). Follow the instructions below:
Based on the dose prescribed, determine the number of each strength of temozolomide capsules needed for the full 42- or 5-day cycle as prescribed by the physician. For

example, in a 5-day cycle, 275 mg/day would be dispensed as five 250 mg capsules, five 20 mg capsules and five 5 mg capsules. Label each container with the appropriate number of capsules to be taken each day. Dispense to the patient, making sure each container lists the strength (mg) per capsule and that he or she understands to take the appropriate number of capsules of temozolomide from each package to equal the total daily dose prescribed by the physician.

How can temozolomide capsules be ordered?

Temozolomide capsules can be ordered from your wholesaler. It is important to understand if temozolomide capsules are being used as part of a 42-day regimen or as part of a 5-day course. Remember to order enough temozolomide capsules for the appropriate cycle.

For example:

- a 5-day course of 360 mg/day would require the following to be ordered: two 5-count packages of 180 mg capsules.
- a 42-day course of 140 mg/day would require the following to be ordered: three 14-count packages of 140 mg capsules.

Temozolomide Capsules, USP 5 mg:

5 count: NDC 16571-816-51

14 count: NDC 16571-816-41

20 count: NDC 16571-816-02

Temozolomide Capsules, USP 20 mg:

5 count: NDC 16571-817-51

14 count: NDC 16571-817-41

20 count: NDC 16571-817-02

Temozolomide Capsules, USP 100 mg:

5 count: NDC 16571-818-51

14 count: NDC 16571-818-41

20 count: NDC 16571-818-02

Temozolomide Capsules, USP 140 mg:

5 count: NDC 16571-819-51

14 count: NDC 16571-819-41

20 count: NDC 16571-819-02

Temozolomide Capsules, USP 180 mg:

5 count: NDC 16571-820-51

14 count: NDC 16571-820-41

20 count: NDC 16571-820-02

Temozolomide Capsules, USP 250 mg:

5 count: NDC 16571-821-51

20 count: NDC 16571-821-02

References:

“OSHA Hazardous Drugs.” OSHA. <http://www.osha.gov/SLTC/hazardousdrugs/index>.

Manufactured for:

Rising Pharma Holdings, Inc.
East Brunswick, NJ 08816

Made in India

Code No.: TS/DRUGS/24/2015

Revised: 03/2024

PLR82120-02

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

Temozolomide Capsules, USP
5 mg - 5's container

Rising NDC 16571-816-51

Temozolomide Capsules, USP

5 mg

For Oral Administration
Caution: Cytotoxic agent-Special Handling

5 Capsules **Rx only**

Each capsule contains:
5 mg Temozolomide, USP

Usual Dose: See package insert for recommendations regarding the use of varying capsule strengths in establishing a daily regimen.

Cytotoxic:
Read accompanying directions carefully.

Dispense in tight, light-resistant containers as defined in USP/NF.

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

Manufactured for:
Rising Pharma Holdings, Inc.
East Brunswick, NJ 08816

Made in India

Code: TS/DRUGS/24/2015
Issued: 04/2022
LR81651-00

P1430008

316571816514

Temozolomide Capsules, USP
20 mg - 5's container



NDC 16571-817-51

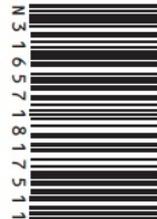
Each capsule contains:
20 mg Temozolomide, USP

Manufactured for:
Rising Pharma Holdings, Inc.
East Brunswick, NJ 08816

Made in India
Code: TS/DRUGS/24/2015

Issued: 04/2022

LR81751-00



Temozolomide Capsules, USP

20 mg

For Oral Administration

Caution: Cytotoxic agent-Special Handling

5 Capsules

Rx only

Usual Dose: See package insert for recommendations regarding the use of varying capsule strengths in establishing a daily regimen.

Cytotoxic:
Read accompanying directions carefully.

Dispense in tight, light-resistant containers as defined in USP/NF.

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

P1430013



Temozolomide Capsules, USP
100 mg - 5's container



NDC 16571-818-51

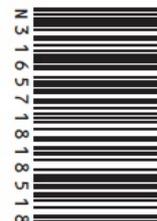
Each capsule contains:
100 mg Temozolomide, USP

Manufactured for:
Rising Pharma Holdings, Inc.
East Brunswick, NJ 08816

Made in India
Code: TS/DRUGS/24/2015

Issued: 04/2022

LR81851-00



Temozolomide Capsules, USP

100 mg

For Oral Administration

Caution: Cytotoxic agent-Special Handling

5 Capsules

Rx only

Usual Dose: See package insert for recommendations regarding the use of varying capsule strengths in establishing a daily regimen.

Cytotoxic:
Read accompanying directions carefully.

Dispense in tight, light-resistant containers as defined in USP/NF.

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

P1430015



Temozolomide Capsules, USP
140 mg - 5's container

	NDC 16571-819-51	Each capsule contains: 140 mg Temozolomide, USP	Manufactured for: Rising Pharma Holdings, Inc. East Brunswick, NJ 08816	
<h1>Temozolomide Capsules, USP</h1>		Usual Dose: See package insert for recommendations regarding the use of varying capsule strengths in establishing a daily regimen.	Made in India Code: TS/DRUGS/24/2015 Issued: 04/2022 LR81951-00	
140 mg		Cytotoxic: Read accompanying directions carefully.	P1430017	
For Oral Administration Caution: Cytotoxic agent-Special Handling	Rx only	Dispense in tight, light-resistant containers as defined in USP/NF.	<div style="display: flex; justify-content: space-between; align-items: center;"> * * </div>	
5 Capsules	Store at 25°C (77°F); excursions permitted to 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].			

Temozolomide Capsules, USP
 180 mg - 5's container

	NDC 16571-820-51	Each capsule contains: 180 mg Temozolomide, USP	Manufactured for: Rising Pharma Holdings, Inc. East Brunswick, NJ 08816	
<h1>Temozolomide Capsules, USP</h1>		Usual Dose: See package insert for recommendations regarding the use of varying capsule strengths in establishing a daily regimen.	Made in India Code: TS/DRUGS/24/2015 Issued: 04/2022 LR82051-00	
180 mg		Cytotoxic: Read accompanying directions carefully.	P1430019	
For Oral Administration Caution: Cytotoxic agent-Special Handling	Rx only	Dispense in tight, light-resistant containers as defined in USP/NF.	<div style="display: flex; justify-content: space-between; align-items: center;"> * * </div>	
5 Capsules	Store at 25°C (77°F); excursions permitted to 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].			

Temozolomide Capsules, USP
 250 mg - 5's container

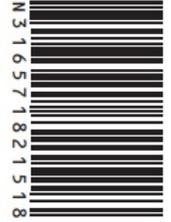


NDC 16571-821-51

Each capsule contains:
250 mg Temozolomide, USP

Manufactured for:
Rising Pharma Holdings, Inc.
East Brunswick, NJ 08816

Made in India
Code: TS/DRUGS/24/2015
Issued: 04/2022
LR82151-00



Temozolomide Capsules, USP

250 mg

For Oral Administration

Caution: Cytotoxic agent-Special Handling

5 Capsules

Rx only

Usual Dose: See package insert for recommendations regarding the use of varying capsule strengths in establishing a daily regimen.

Cytotoxic:
Read accompanying directions carefully.

Dispense in tight, light-resistant containers as defined in USP/NF.

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

P1430021



TEMOZOLOMIDE

temozolomide capsule

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:16571-816
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
TEMOZOLOMIDE (UNII: YF1K15M17Y) (TEMOZOLOMIDE - UNII:YF1K15M17Y)	TEMOZOLOMIDE	5 mg

Inactive Ingredients

Ingredient Name	Strength
ANHYDROUS LACTOSE (UNII: 3S5Y5LH9PMK)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
SODIUM STARCH GLYCOLATE TYPE A CORN (UNII: AG9B65PV6B)	
TARTARIC ACID (UNII: W4888I119H)	
STEARIC ACID (UNII: 4ELV7Z65AP)	
GELATIN (UNII: 2G86QN327L)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
FERRIC OXIDE YELLOW (UNII: EX438O2MRT)	
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	

Product Characteristics

Color	WHITE, GREEN	Score	no score
Shape	CAPSULE	Size	16mm
Flavor		Imprint Code	LP;604
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:16571-816-51	5 in 1 BOTTLE; Type 0: Not a Combination Product	10/04/2022	
2	NDC:16571-816-02	20 in 1 BOTTLE; Type 0: Not a Combination Product	10/04/2022	
3	NDC:16571-816-41	14 in 1 BOTTLE; Type 0: Not a Combination Product	10/04/2022	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA206309	10/04/2022	

TEMOZOLOMIDE

temozolomide capsule

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:16571-817
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
TEMOZOLOMIDE (UNII: YF1K15M17Y) (TEMOZOLOMIDE - UNII:YF1K15M17Y)	TEMOZOLOMIDE	20 mg

Inactive Ingredients

Ingredient Name	Strength
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
SODIUM STARCH GLYCOLATE TYPE A CORN (UNII: AG9B65PV6B)	
TARTARIC ACID (UNII: W4888I119H)	
STEARIC ACID (UNII: 4ELV7Z65AP)	
GELATIN (UNII: 2G86QN327L)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
FERRIC OXIDE YELLOW (UNII: EX438O2MRT)	

Product Characteristics

Color	WHITE, YELLOW	Score	no score
Shape	CAPSULE	Size	18mm
Flavor		Imprint Code	LP;605
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:16571-817-51	5 in 1 BOTTLE; Type 0: Not a Combination Product	10/04/2022	
2	NDC:16571-817-02	20 in 1 BOTTLE; Type 0: Not a Combination Product	10/04/2022	
3	NDC:16571-817-41	14 in 1 BOTTLE; Type 0: Not a Combination Product	10/04/2022	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA206309	10/04/2022	

TEMOZOLOMIDE

temozolomide capsule

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:16571-818
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
TEMOZOLOMIDE (UNII: YF1K15M17Y) (TEMOZOLOMIDE - UNII:YF1K15M17Y)	TEMOZOLOMIDE	100 mg

Inactive Ingredients

Ingredient Name	Strength
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
SODIUM STARCH GLYCOLATE TYPE A CORN (UNII: AG9B65PV6B)	
TARTARIC ACID (UNII: W4888I119H)	
STEARIC ACID (UNII: 4ELV7Z65AP)	
GELATIN (UNII: 2G86QN327L)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
FERRIC OXIDE YELLOW (UNII: EX438O2MRT)	
FERRIC OXIDE RED (UNII: 1K09F3G675)	

Product Characteristics

Color	WHITE, PINK	Score	no score
Shape	CAPSULE	Size	18mm
Flavor		Imprint Code	LP;606

Contains**Packaging**

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:16571-818-51	5 in 1 BOTTLE; Type 0: Not a Combination Product	10/04/2022	
2	NDC:16571-818-02	20 in 1 BOTTLE; Type 0: Not a Combination Product	10/04/2022	
3	NDC:16571-818-41	14 in 1 BOTTLE; Type 0: Not a Combination Product	10/04/2022	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA206309	10/04/2022	

TEMOZOLOMIDE

temozolomide capsule

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:16571-819
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
TEMOZOLOMIDE (UNII: YF1K15M17Y) (TEMOZOLOMIDE - UNII:YF1K15M17Y)	TEMOZOLOMIDE	140 mg

Inactive Ingredients

Ingredient Name	Strength
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
SODIUM STARCH GLYCOLATE TYPE A CORN (UNII: AG9B65PV6B)	
TARTARIC ACID (UNII: W4888I119H)	
STEARIC ACID (UNII: 4ELV7Z65AP)	
GELATIN (UNII: 2G86QN327L)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
FERRIC OXIDE YELLOW (UNII: EX438O2MRT)	
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	

Product Characteristics

Color	WHITE, BLUE	Score	no score
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Shape	CAPSULE	Size	20mm
Flavor		Imprint Code	LP;607
Contains			

Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:16571-819-51	5 in 1 BOTTLE; Type 0: Not a Combination Product	10/04/2022	
2	NDC:16571-819-02	20 in 1 BOTTLE; Type 0: Not a Combination Product	10/04/2022	
3	NDC:16571-819-41	14 in 1 BOTTLE; Type 0: Not a Combination Product	10/04/2022	

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA206309	10/04/2022	

TEMOZOLOMIDE

temozolomide capsule

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:16571-820
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
TEMOZOLOMIDE (UNII: YF1K15M17Y) (TEMOZOLOMIDE - UNII:YF1K15M17Y)	TEMOZOLOMIDE	180 mg

Inactive Ingredients

Ingredient Name	Strength
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
SODIUM STARCH GLYCOLATE TYPE A CORN (UNII: AG9B65PV6B)	
TARTARIC ACID (UNII: W4888I119H)	
STEARIC ACID (UNII: 4ELV7Z65AP)	
GELATIN (UNII: 2G86QN327L)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
FERRIC OXIDE RED (UNII: 1K09F3G675)	

Product Characteristics

Color	WHITE, ORANGE	Score	no score
Shape	CAPSULE	Size	22mm
Flavor		Imprint Code	LP;608
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:16571-820-51	5 in 1 BOTTLE; Type 0: Not a Combination Product	10/04/2022	
2	NDC:16571-820-02	20 in 1 BOTTLE; Type 0: Not a Combination Product	10/04/2022	
3	NDC:16571-820-41	14 in 1 BOTTLE; Type 0: Not a Combination Product	10/04/2022	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA206309	10/04/2022	

TEMOZOLOMIDE

temozolomide capsule

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:16571-821
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
TEMOZOLOMIDE (UNII: YF1K15M17Y) (TEMOZOLOMIDE - UNII:YF1K15M17Y)	TEMOZOLOMIDE	250 mg

Inactive Ingredients

Ingredient Name	Strength
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
SODIUM STARCH GLYCOLATE TYPE A CORN (UNII: AG9B65PV6B)	
TARTARIC ACID (UNII: W4888I119H)	
STEARIC ACID (UNII: 4ELV7Z65AP)	
GELATIN (UNII: 2G86QN327L)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	

Product Characteristics

Color	WHITE	Score	no score
Shape	CAPSULE	Size	22mm
Flavor		Imprint Code	LP;609
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:16571-821-51	5 in 1 BOTTLE; Type 0: Not a Combination Product	10/04/2022	
2	NDC:16571-821-02	20 in 1 BOTTLE; Type 0: Not a Combination Product	10/04/2022	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA206309	10/04/2022	

Labeler - Rising Pharma Holdings, Inc. (116880195)

Establishment

Name	Address	ID/FEI	Business Operations
Eugia Pharma Specialities Limited		650498244	ANALYSIS(16571-816, 16571-817, 16571-818, 16571-819, 16571-820, 16571-821) , MANUFACTURE(16571-816, 16571-817, 16571-818, 16571-819, 16571-820, 16571-821) , PACK(16571-816, 16571-817, 16571-818, 16571-819, 16571-820, 16571-821)

Revised: 7/2024

Rising Pharma Holdings, Inc.