
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
Warnings and Precautions (5.5) 02/2020
INDICATIONS AND USAGE
Temozolomide Capsules are an alkylating drug indicated for the treatment of adult patients with: (1)
• Newly diagnosed glioblastoma concomitantly with radiotherapy and then as maintenance treatment (1.1)
• Refractory anaplastic astrocytoma patients who have experienced disease progression on a drug regimen containing
nitrosourea and procarbazine. (1.2)
DOSAGE AND ADMINISTRATION
<u>Newly Diagnosed Glioblastoma</u> :
• 75 mg/m ² once daily for 42 days concomitant with focal radiotherapy followed by initial maintenance dose of 150 mg/m
² once daily for Days 1 to 5 of each 28-day cycle for 6 cycles. May increase maintenance dose to 200 mg/m ² for cycles
 2 – 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)
• <u>Refractory Anaplastic Astrocytoma</u> : Initial dose of 150 mg/m ₂ once daily on Days 1 to 5 of each 28-day cycle. (2.2)
DOSAGE FORMS AND STRENGTHS
• <u>Capsules</u> : 5 mg, 20 mg, 100 mg, 140 mg, 180 mg, and 250 mg (3)
• <u>Capsules</u> . 5 ling, 20 ling, 100 ling, 140 ling, 160 ling, and 250 ling (5)
CONTRAINDICATIONS
• History of hypersensitivity to temozolomide or any other ingredients in Temozolomide Capsules and dacarbazine. (4.1)
WARNINGS AND PRECAUTIONS
• <u>Myelosuppression</u> : 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)
 <u>Myelodysplastic Syndrome and Secondary Malignancies</u>, including myeloid leukemia, have been observed. (5.2) Dreume syntic Preum enix (PCP): Clease to menitor all periods to periods for the development
 <u>Pneumocystis Pneumonia (PCP)</u>: Closely monitor all patients, particularly those receiving steroids, for the development of lymphopenia and PCP. (5.3)
 <u>Hepatotoxicity</u>: 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.
• <u>Embryo-Fetal Toxicity</u> : 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)
 ADVERSE REACTIONS The most common adverse reactions (greater than or equal to 20% incidence) are: alopecia, fatigue, nausea, vomiting,
• The most common adverse reactions (greater than or equal to 20% incidence) are: alopecia, langue, nausea, voluting, headache, constipation, anorexia, and convulsions. (6.1)
 The most common Grade 3 to 4 hematologic laboratory abnormalities (greater than or equal to 10% incidence) in
patients with analystic actrocytoma are decreased lymphocytes decreased platelets decreased neutrophile and

- patients with anaplastic astrocytoma are: decreased lymphocytes, decreased platelets, decreased neutrophils, and decreased leukocytes. (6.1)
- (6) (6)

------USE IN SPECIFIC POPULATIONS ------

• Lactation: Advise not to breastfeed. (8.2)

(7) See 17 for PATIENT COUNSELING INFORMATION and FDA- approved patient labeling. (7) (7) Revised: 02/2020 (7) See 17 for FDA-approved patient labeling.

Revised: 3/2020

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FULL PRESCRIBING INFORMATION

1. INDICATIONS AND USAGE

1.1 Newly Diagnosed Glioblastoma

Temozolomide Capsules are indicated for the treatment of adult patients with newly diagnosed glioblastoma concomitantly with radiotherapy and then as maintenance treatment.

1.2 Refractory Anaplastic Astrocytoma

Temozolomide Capsules are indicated for the treatment of adult patients with refractory anaplastic astrocytoma who have experienced disease progression on a drug regimen containing nitrosourea and procarbazine.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage and Dosage Modifications for Newly Diagnosed Glioblastoma

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

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

Concomitant Phase:

The recommended dosage of Temozolomide is 75 mg/m² once daily for 42 days (up to 49 days) concomitant with focal radiotherapy (60 Gy administered in 30 fractions). Focal radiotherapy includes the tumor bed or resection site with a 2- to 3-cm margin.

Obtain a complete blood count weekly. No dose reductions are recommended during the concomitant phase. The recommended dosage modifications during the concomitant phase are provided in **Table 1**.

TABLE 1: Temozolomide Dosage Modifications During Concomitant Phase

Adverse Reaction	Interruption	Discontinuation	
	Withhold Temozolomide if ANC is greate	r	
	than or equal to $0.5 \ge 10^{9}$ /L and less than	Discontinue Temozolomide	
Absolute Neutrophil Count	1.5 x 10 ⁹ /L.	if platelet count is less than	
-	Resume Temozolomide when ANC is	0.5 x 10 ⁹ /L.	
	greater than or equal to $1.5 \ge 10^{9}$ /L.		
	Withhold Temozolomide if platelet count	is	
	greater than or equal to 10×10^{9} /L and les	s Discontinue Temozolomide	
Platelet Count	than 100 x 10 ⁹ /L.	if platelet count is less than	
	Resume Temozolomide when platelet count 10° x 10° /L.		
	is greater than or equal to 100×10^{9} /L.		
Non hometalo gioal Advance	Withhold Temozolomide if Grade 2	Discontinue Terrescale mide	
Non-hematological Adverse	adverse reaction occurs.	Discontinue Temozolomide	
Reaction (except for alopecia,	Decume Temperatoride when recelution to	II Grade 3 of 4 adverse	

Maintenance Phase

Beginning 4 weeks after Concomitant Phase completion, administer Temozolomide once daily on Days 1 to 5 of each 28-day cycle for 6 cycles. The recommended dosage of Temozolomide is as follows:

- Cycle 1: 150 mg/m₂ per day
- Cycles 2 to 6: may increase to 200 mg/m₂ per day if the following conditions are met before starting cycle 2. If the dose was not escalated at the onset of Cycle 2, **do not** increase the dose for Cycles 3 to 6.
- Non-hematologic toxicity is Grade 2 or less (except for alopecia, nausea, vomiting)
- ANC is greater than or equal to 1.5×10^{9} /L and
- Platelet count is greater than or equal to 100×10^{9} /L.

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

The recommended dosage modifications during the maintenance phase are provided in **Table 2**. If Temozolomide is withheld, reduce the dose for the next cycle by 50 mg/m² per day. Permanently discontinue Temozolomide in patients who are unable to tolerate a dose of 100 mg/m² per day.

Toxicity	Interruption and Dose Reduction	Discontinuation
Absolute Neutrophil Count	Withhold Temozolomide if ANC less than 1 x 10 ⁹ /L. When ANC is above 1.5 x 10 ⁹ /L, resume Temozolomide at reduced dose for the next cycle.	x Unable to tolerate a dose of 100 mg/m ² per day.
Platelet Count	Withhold Temozolomide if platelet less than 50 x 10 ⁹ /L. When platelet count is above 100 x 10 ⁹ /L, resume Temozolomide at reduced dose for the next cycle.	Unable to tolerate a dose of 100 mg/m ² per day.
Non-hematological Adverse Reaction (except for alopecia, nausea, vomiting)	Withhold Temozolomide if Grade 3 adverse reaction. When resolved to Grade 1 or less, resume Temozolomide at reduced dose for the next cycle.	Recurrent Grade 3 after dose reduction. Grade 4 Unable to tolerate a dose of 100 mg/m ² per day.

TABLE 2: Temozolomide Dosage Modifications During Maintenance Treatment

2.2 Recommended Dosage and Dosage Modifications for Refractory Anaplastic Astrocytoma

The recommended initial dosage of Temozolomide is 150 mg/m² once daily on Days 1 to 5 of each 28day 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 $1.5 \ge 10^{9}$ /L and
- Platelet count is greater than or equal to 100×10^{9} /L.

Continue Temozolomide until disease progression or unacceptable toxicity. In the clinical trial, treatment could be continued for a maximum of 2 years, but the optimum duration of therapy is not known.

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

If the ANC is less than 1 x 10 9 /L or the platelet count is less than 50 x 10 9 /L during any cycle, reduce the Temozolomide dose for the next cycle by 50 mg/m² per day. Permanently discontinue Temozolomide in patients who are unable to tolerate a dose of 100 mg/m² per day.

2.3 Preparation and Administration

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

<u>Temozolomide capsules</u>

Administer Temozolomide consistently with respect to food (fasting vs. nonfasting) [see Clinical *Pharmacology (12.3)*]. To reduce nausea and vomiting, take Temozolomide on an empty stomach or at bedtime and consider antiemetic therapy prior to and/or following Temozolomide administration.

Swallow Temozolomide capsules whole. Do not open or chew capsules.

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, the hands should be washed.

3 DOSAGE FORMS AND STRENGTHS

• Capsules:

- 5 mg capsules have opaque white bodies with green caps. The capsule body is imprinted with the dosage strength.

- 20 mg capsules have opaque white bodies with yellow caps. The capsule body is imprinted with the dosage strength.

- 100 mg capsules have opaque white bodies with pink caps. The capsule body is imprinted with the dosage strength.

- 140 mg capsules have opaque white bodies with blue caps. The capsule body is imprinted with the dosage strength.

- 180 mg capsules have opaque white bodies with orange caps. The capsule body is imprinted with the dosage strength.

- 250 mg capsules have opaque white bodies with white caps. The capsule body is imprinted with the dosage strength.

4 CONTRAINDICATIONS

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

- temozolomide or any other ingredients in Temozolomide capsules; and
- decarbazine, since both temozolomide and decarbazine are metabolized to the same active metabolite 5-(3-methyltriazen-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)]*. Geriatric patients and women have been

shown in clinical trials to have a higher risk of developing myelosuppression.

Prior to dosing, patients must have an ANC of 1.5 x 10 9 /L or greater and a platelet count of 100 x 10 9 /L or greater.

For the concomitant phase with radiotherapy, obtain a complete blood count prior to initiation of treatment and weekly during treatment [see Dosage and Administration (2.1)].

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 x 10 9 /L and the platelet count falls below 100 x 10 9 /L [*see Dosage and Administration (2.1, 2.2)*].

5.2 Myelodys plastic Syndrome and Secondary Malignancies

Cases of myelodysplastic syndrome and secondary malignancies, including myeloid leukemia, have been observed following Temozolomide administration.

5.3 Pneumocystis Pneumonia

Pneumocystis pneumonia (PCP) can occur in patients receiving Temozolomide. The risk of PCP is increased in patients receiving steroids or with longer treatment regimens.

For patients with newly diagnosed glioblastoma, provide PCP prophylaxis for all patients during the concomitant phase. Continue 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 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.

5.5 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 embryolethality and polymalformations at doses less than the maximum human dose based on body surface area.

Advise pregnant women of the potential risk to the fetus. Advise females of reproductive potential to use effective contraception during treatment with Temozolomide and for at least 6 months after the final 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 at least 3 months after the final dose. Advise male patients not to donate semen during treatment with Temozolomide and for at least 3 months after the final dose [see Use in Specific Populations (8.1, 8.3)].

6 ADVERSE REACTIONS

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

- Myelosuppression [see Warnings and Precautions (5.1)].
- Myelodysplastic Syndrome and Secondary Malignancies [see Warnings and Precautions (5.2)].
- Pneumocystis Pneumonia [see Warnings and Precautions (5.3)].
- Hepatotoxicity [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)].

Forty-nine percent (49%) of patients treated with Temozolomide reported one or more severe or lifethreatening reactions, most commonly fatigue (13%), convulsions (6%), headache (5%), and thrombocytopenia (5%).

The most common adverse reactions (greater than or equal to 20%) across the cumulative Temozolomide experience were alopecia, fatigue, nausea, and vomiting. **Table 3** summarizes the adverse reactions in Newly Diagnosed Glioblastoma Trial. Overall, the pattern of reactions during the maintenance phase was consistent with the known safety profile of Temozolomide.

TABLE 3: Adverse Reactions (5% or Greater) in Patients Receiving Temozolomide in

Concomitant Phase Maintenance Phase **Radiation Therapy and Radiation Therapy Alone** Temozolomide Temozolomide Adverse N=285 N=224 N=288* Reactions All Grades greater than All All **Grades** greater Grades greater than Grades Grades or equal to 3 (%) Grades than or equal to or equal to 3 (%) (%) (%) (%) (%) 3 (%) Skin and Subcutaneous Tissue 63 Alopecia 69 55 Rash 19 1 15 13 1 Dry Skin 2 2 5 <1 Pruritus 4 1 5 Ervthema 5 5 1 General 7 54 49 5 9 Fatigue 61 19 1 9 <1 27 1 Anorexia Headache 19 2 17 4 23 4 Weakness 3 2 3 1 7 2 4 1 5 Dizziness 4 Gas trointes tinal Sys tem 49 Nausea 36 1 16 <1 1 29 2 Vomiting 20 <1 <1 6 22 Constipation 18 6 1 Diarrhea 3 6 10 1 7 5 9 Stomatitis <1 1 Abdominal Pain 2 1 5 <1 <1 Eve Vision Blurred 9 1 9 1 8 Injury **Radiation Injury** 7 2 4 <1 NOS **Central and Peripheral Nervous System** Convulsions 7 3 6 3 11 3 Memory 3 <1 7 1 <1 4 Impairment

Newly Diagnosed Glioblastoma Trial

Confusion	4	1	4	2	5	2
Special Senses O	ther					
Taste Perversion	6		2		5	
Respiratory Syst	em					
Coughing	5	1	1		8	<1
Dyspnea	4	2	3	1	5	<1
Psychiatric						
Insomnia	5		3	<1	4	
Immune System						
Allergic Reaction	1 5		2	<1	3	
Platelet, Bleeding	g and C	lotting				
Thrombocytopeni	a4	3	1		8	4
Mus culos keletal System						
Arthralgia	2	<1	1		6	

*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 greater than or equal to 3 column.

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

Refractory Anaplastic Astrocytoma

The safety of Temozolomide was evaluated in Study MK-7365-006 [see Clinical Studies (14.2)].

Myelosuppression (thrombocytopenia and neutropenia) was the dose-limiting adverse reaction. It usually occurred within the first few cycles of therapy and was not cumulative.

Myelosuppression occurred late in the treatment cycle and returned to normal, on average, within 14 days of nadir counts. The median nadirs occurred at 26 days for platelets (range: 21-40 days) and 28 days for neutrophils (range: 1-44 days). Only 14% (22/158) of patients had a neutrophil nadir and 20% (32/158) of patients had a platelet nadir, which may have delayed the start of the next cycle. Less than 10% of patients required hospitalization, blood transfusion, or discontinuation of therapy due to myelosuppression.

The most common adverse reactions (greater than or equal to 20%) were nausea, vomiting, headache, fatigue, constipation, and convulsions.

Tables 4 and **5** summarize the adverse reactions and hematological laboratory abnormalities in Refractory Anaplastic Astrocytoma Trial.

TABLE 4: Adverse Reactions (5% or Greater) in Patients Receiving Temozolomide inRefractory Anaplastic Astrocytoma Trial

Adverse Reactions	Temozolomide N=158 All Reactions Grade 3-	
	(%)	(%)
Gas trointes tinal Sys tem		
Nausea	53	10
Vomiting	42	6
Constipation	33	1

Diarrhea	16	2
Abdominal Pain	9	1
Anorexia	9	1
General		
Headache	41	6
Fatigue	34	4
Asthenia	13	6
Fever	13	2
Back Pain	8	3
Central and Peripheral Nervo	us System	
Convulsions	23	5
Hemiparesis	18	6
Dizziness	12	1
Coordination abnormal	11	1
Amnesia	10	4
Insomnia	10	
Paresthesia	9	1
Somnolence	9	3
Paresis	8	3
Urinary incontinence	8	2
Ataxia	8	2
Dysphasia	7	1
Convulsions local	6	T
Gait abnormal	6	1
Confusion	5	T
Cardiovas cular	5	
Edema peripheral	11	1
Resistance Mechanism	11	1
Infection viral	11	
Endocrine	11	
	8	
Adrenal hypercorticism	0	
Respiratory System	-0	
Upper respiratory tract infection	_	
Pharyngitis	8	
Sinusitis	6	
Coughing	5	
Skin and Appendages	0	
Rash	8	1
Pruritus	8	1
Urinary System	0	
Urinary tract infection	8	
Micturition increased frequency	76	
Psychiatric Disorders	_	
Anxiety	7	1
Depression	6	
Reproductive Disorders	-	
Breast pain, female	6	
Metabolic	_	
Weight increase	5	
Musculoskeletal System	_	
Myalgia	5	
Vision	_	
Diplopia	5	

Vision abnormal*	5
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*This item includes blurred vision; visual deficit; vision changes; and vision troubles.

TABLE 5: Grade 3 to 4 Adverse Hematologic Laboratory Abnormalities in Refractory AnaplasticAstrocytoma Trial

	Temozolomide *†
Decreased lymphocytes	s55%
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

† Dominator 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 less than 0.5 x 10 9 /L) and thrombocytopenia (less than 20 x 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 9.5% (6/63) of patients over age 70 experienced Grade 4 neutropenia or thrombocytopenia in the first cycle, respectively. For patients less than or equal to age 70, 7% (62/871) and 5.5% (48/879) experienced Grade 4 neutropenia or thrombocytopenia in the first cycle, respectively. Pancytopenia, leukopenia, and anemia also occurred.

Adverse reactions with Temozolomide for injection

Adverse reactions that were reported in 35 patients who received Temozolomide for injection that were not reported in patients who received Temozolomide capsules were pain, irritation, pruritus, warmth, swelling, and erythema at infusion site; petechiae and hematoma.

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

<u>Immune System</u>: Hypersensitivity reactions, including anaphylaxis. Erythema multiforme, which resolved after discontinuation of Temozolomide and, in some cases, recurred upon rechallenge.

<u>Hematopoietic</u>: Prolonged pancytopenia, which may result in aplastic anemia and fatal outcomes.

<u>Hepatobiliary</u>: Fatal and severe hepatotoxicity, elevation of liver enzymes, hyperbilirubinemia, cholestasis, and hepatitis.

<u>Infections</u>: Serious opportunistic infections, including some cases with fatal outcomes, can occur with bacterial, viral (primary and reactivated), fungal, and protozoan organisms.

<u>Pulmonary</u>: Interstitial pneumonitis, pneumonitis, alveolitis, and pulmonary fibrosis.

Endocrine: Diabetes insipidus

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Based on its mechanism of action *[see Clinical Pharmacology (12.1)]* and findings from animal studies, 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 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.

<u>Data</u>

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 8-12) 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 embryolethality 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 at least 1 week after the final dose.

8.3 Females and Males of Reproductive Potential

Pregnancy Testing

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

Contraception

Females

Temozolomide can cause embryo-fetal harm when administered to a pregnant woman [see Use in Specific *Population (8.1)*]. Advise females of reproductive potential to use effective contraception during treatment with Temozolomide and for at least 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 at least 3 months after the final dose [see Use in Specific Population (8.1), Nonclinical Toxicology (13.1)]. Advise male patients not to donate semen during treatment with Temozolomide and or at least 3 months after the final dose.

<u>Infertility</u>

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 the Newly Diagnosed Glioblastoma trial, Study MK-7365-051, 15% of patients 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 greater than or equal to 65 years and younger patients.

In the Refractory Anaplastic Astrocytoma trial, MK-7365-0006, 4% of patients 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) and Adverse Reactions (6.1)].

8.6 Renal Impairment

No dosage adjustment is recommended for patients with creatinine clearance (CLcr) 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 (CLcr less than 36 mL/min/m²) or for patients with end-stage disease on dialysis.

8.7 Hepatic Impairment

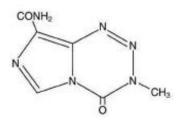
No dosage adjustment is recommended for patients with mild to moderate hepatic impairment (Child Pugh class A and B) *[see Clinical Pharmacology (12.3)]*. The recommended dose of Temozolomide has not been established for patients with severe hepatic impairment (Child Pugh class C).

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-3methyl-4-oxoimidazo[5,1-d]- *as*-tetrazine-8-carboxamide. The structural formula is:



The material is a white to light tan/light pink powder with a molecular formula of C 6 H6 N6 O 2 and a molecular weight of 194.15. The molecule is stable at acidic pH (less than 5) and labile at pH greater than 7; hence Temozolomide can be administered orally. The prodrug, temozolomide, is rapidly hydrolyzed to the active 5-(3-methyltriazen-1-yl) imidazole-4-carboxamide (MTIC) at neutral and alkaline pH values, with hydrolysis taking place even faster at alkaline pH.

Temozolomide capsules:

Temozolomide capsules 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 are as follows:

Temozolomide capsules 5 mg: lactose anhydrous (132.8 mg), colloidal silicon dioxide (0.2 mg), sodium starch glycolate (7.5 mg), tartaric acid (1.5 mg), and stearic acid (3 mg).

Temozolomide capsules *20 mg*: lactose anhydrous (182.2 mg), colloidal silicon dioxide (0.2 mg), sodium starch glycolate (11 mg), tartaric acid (2.2 mg), and stearic acid (4.4 mg).

Temozolomide capsules *100 mg*: lactose anhydrous (175.7 mg), colloidal silicon dioxide (0.3 mg), sodium starch glycolate (15 mg), tartaric acid (3 mg), and stearic acid (6 mg).

Temozolomide capsules *140 mg*: lactose anhydrous (246 mg), colloidal silicon dioxide (0.4 mg), sodium starch glycolate (21 mg), tartaric acid (4.2 mg), and stearic acid (8.4 mg).

Temozolomide capsules *180 mg*: lactose anhydrous (316.3 mg), colloidal silicon dioxide (0.5 mg), sodium starch glycolate (27 mg), tartaric acid (5.2 mg), and stearic acid (10.8 mg).

Temozolomide capsules *250 mg*: lactose anhydrous (154.3 mg), colloidal silicon dioxide (0.7 mg), sodium starch glycolate (22.5 mg), tartaric acid (9 mg), and stearic acid (13.5 mg).

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 is imprinted with pharmaceutical branding ink, which contains shellac, propylene glycol, strong ammonia solution, potassium hydroxide, and black iron oxide.

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

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

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

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

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

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

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-methyltriazen-1-yl)-imidazole-4-carboxamide (MTIC). The cytotoxicity of MTIC is thought to be primarily due to alkylation of DNA. Alkylation (methylation) occurs mainly at the O 6 and N 7 positions of guanine.

12.3 Pharmacokinetics

Following a single oral dose of 150 mg/m², the mean C $_{\rm max}$ value for Temozolomide was 7.5 mcg/mL and for MTIC was 282 ng/mL.

The mean AUC value for Temozolomide was 23.4 mcg•hr/mL and for MTIC was 864 ng•hr/mL.

Following a single 90-minute intravenous infusion of 150 mg/m², the mean C $_{max}$ value for Temozolomide was 7.3 mcg/mL and for MTIC was 276 ng/mL. The mean AUC value for Temozolomide was 24.6 mcg•hr/mL and for MTIC was 891 ng•hr/mL.

Temozolomide exhibits linear kinetics over the therapeutic dosing range of 75 mg/m 2 /day to 250 mg/m 2 /day.

<u>Absorption</u>

The median T_{max} is 1 hour.

Effect of Food

The mean C _{max} and AUC decreased by 32% and 9%, respectively, and median T _{max} increased by 2-fold (from 1-2.25 hours) when Temozolomide capsules were administered after a modified high-fat breakfast (587 calories 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 apparent volume of distribution of 0.4 L/kg (%CV=13%). The mean percent bound of drug-related total radioactivity is 15%.

<u>Elimination</u>

Clearance of temozolomide is about 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 only 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

About 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 recovery of radioactivity in urine is unchanged temozolomide (6%), AIC (12%), temozolomide acid metabolite (2.3%), and unidentified polar metabolite(s) (17%).

Specific Populations

No clinically meaningful differences in the pharmacokinetics of temozolomide were observed based on age (range: 19-78 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 studies 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

Effect of Other Drugs on Temozolomide Pharmacokinetics

In a multiple-dose study, administration of Temozolomide capsules with ranitidine did not change the C $_{max}$ or AUC values for temozolomide or MTIC.

A population analysis indicated that administration of valproic acid decreases the clearance of temozolomide by about 5%.

A population analysis did not demonstrate any influence of coadministered dexamethasone, prochlorperazine, phenytoin, carbamazepine, ondansetron, histamine-2-receptor antagonists, or phenobarbital on the clearance of orally administered temozolomide.

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 (25-125 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 harderian 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

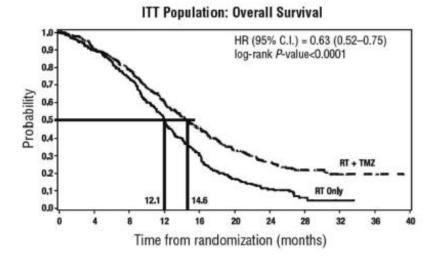
The efficacy of Temozolomide was evaluated in Study MK-7365-051, a randomized (1:1), multicenter, open-label trial. Eligible patients were required to have newly diagnosed glioblastoma. Patients were randomized to receive either radiation therapy alone or concomitant Temozolomide 75 mg/m² once daily starting the first day of radiation therapy and continuing the last day of radiation therapy for 42 days (with 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 in 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* less than 0.0001 in favor of the Temozolomide arm. The median survival was increased by 2.5 months in the Temozolomide arm.

FIGURE 1: Kaplan-Meier Curves for Overall Survival (ITT Population) in Newly Diagnosed Glioblastoma Trial



14.2 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/m ²/day. If ANC was greater than or equal to 1.5×10^{9} /L and platelet count was greater than or equal to 100×10^{9} /L at the nadir and on Day 1 of the next cycle, the Temozolomide dose was increased to 200 mg/m ²/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 greater than 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/SLTC/hazardousdrugs/index.

16 HOW SUPPLIED/STORAGE AND HANDLING

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

Temozolomide capsules

Temozolomide capsules are supplied in amber glass bottles with child-resistant caps containing the following capsule strengths:

Temozolomide capsules 5 mg: have opaque white bodies with green caps. The capsule body is imprinted with the dosage strength.

They are supplied as follows:

5-count – NDC 59923-703-05

14-count - NDC 59923-704-14

Temozolomide capsules 20 mg: have opaque white bodies with yellow caps. The capsule body is imprinted with the dosage strength.

They are supplied as follows:

5-count – NDC 59923-705-05

14-count - NDC 59923-706-14

Temozolomide capsules 100 mg: have opaque white bodies with pink caps. The capsule body is imprinted with the dosage strength.

They are supplied as follows:

5-count – NDC 59923-707-05

14-count-NDC 59923-708-14

Temozolomide capsules 140 mg: have opaque white bodies with blue caps. The capsule body is imprinted with the dosage strength.

They are supplied as follows:

5-count - NDC 59923-709-05

14-count – NDC 59923-710-14

Temozolomide capsules 180 mg: have opaque white bodies with orange caps. The capsule body is imprinted with the dosage strength.

They are supplied as follows:

5-count-NDC 59923-711-05

14-count - NDC 59923-712-14

Temozolomide capsules 250 mg: have opaque white bodies with white caps. The capsule body is imprinted with the dosage strength.

They are supplied as follows:

5-count – NDC 59923-713-05

Store Temozolomide capsules at 25°C (77°F); excursions permitted to 15° to 30°C (59° 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 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 infections *[see Warnings and Precautions (5.1)]*.

Myelodysplastic Syndrome and Secondary Malignancies

Advise patients of the increased risk of myelodysplastic syndrome and secondary malignancies [see *Warnings and Precautions* (5.2)].

<u>Pneumocystis Pneumonia</u>

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)].

<u>Hepatotoxicity</u>

Advise patients of the increased risk of hepatotoxicity and to contact their healthcare provider immediately for signs or symptoms of hepatotoxicity [see Warnings and Precautions (5.4)].

Administration Instructions

Advise patients to not open 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. In case of powder contact, the hands should be washed [see Dosage and Administration (2.3)].

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 Population* (8.1)].

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

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

Advise male patients not to donate semen during treatment with Temozolomide and for at least 3 months after the final dose [see Use in Specific Population (8.3), Nonclinical Toxicology (13.1)].

Lactation

Advise women not to breastfeed during treatment with Temozolomide and for at least 1 week after the final dose [see Use in Specific Population (8.2)].

<u>Infertility</u>

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

Distributed by:

Areva Pharmaceuticals Inc. Georgetown, IN 47122

Made in Italy

Patient Information

Patient Information

Temozolomide capsules (TEM-oh-ZOE-loe-mide)

What is the most important information I should know about Temozolomide capsules?

Temozolomide capsules may cause birth defects

Females and female partners of male patients who take Temozolomide capsules:

- Avoid becoming pregnant while taking Temozolomide capsules.
- Females who can become pregnant should use an effective form of birth control (contraception) during treatment and for at least 6 months after your last dose of Temozolomide capsules. Your doctor should to do a pregnancy test to make sure that you are not pregnant before you start taking Temozolomide capsules.
- Tell your doctor right away if you become pregnant or think you are pregnant during treatment with Temozolomide capsules.

Males taking Temozolomide capsules and have a female partner who is pregnant or who can become pregnant:

- Use a condom for birth control (contraception) during treatment and for at least 3 months after taking your final dose of Temozolomide capsules.
- Do not donate semen during treatment and for at least 3 months after your final dose of Temozolomide capsules.

See the section "What are the possible side effects of Temozolomide capsules?" for more information about side effects.

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.

Who should not take Temozolomide capsules?

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 the 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 doctor.
- have had an allergic reaction to dacarbazine (DTIC), another cancer medicine.

What should I tell my doctor before taking Temozolomide capsules?

Tell your doctor about all your medical conditions, including if you:

- have kidney problems
- have liver problems
- are pregnant or plan to become pregnant. See **"What is the most important information I should know about Temozolomide capsules?"**
- are breast-feeding or plan to breastfeed. It is not known if Temozolomide capsules passes into your

breast milk. **Do not** breastfeed during treatment and for at least 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. Especially tell your doctor if you take a medicine that contains valproic acid.

Know the medicines you take. Keep a list of them and show it to your doctor and pharmacist when you get a new medicine.

How should I take Temozolomide capsules?

Temozolomide capsules may be taken by mouth as a capsule.

Take Temozolomide capsules exactly as prescribed by your doctor.

There are 2 common dosing schedules for taking 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 days in a row (possibly 49 days depending on side effects) along with receiving radiation treatment. **This is one cycle of treatment.**
- After this, your doctor may prescribe 6 more cycles of Temozolomide capsules as "maintenance" treatment. For each of these cycles, you take or receive Temozolomide capsules 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 you stop taking it for the next 23 days. **This is one cycle of treatment (28 days).**
- Your doctor will watch your progress on Temozolomide and decide how long you should take it. You might take Temozolomide capsules until your tumor gets worse or for possibly up to 2 years.
- If your doctor prescribes a treatment regimen that is different from the information in this leaflet, make sure you follow the instructions given to you by your doctor.
- Your doctor may change your dose of Temozolomide capsules, or tell you to stop Temozolomide capsules for a short period of time or permanently if you have certain side effects.
- Your doctor will decide how many treatment cycles of Temozolomide capsules that you will receive, depending on how you respond to and tolerate this treatment.

Temozolomide capsules:

- Take Temozolomide capsules exactly as your doctor tells you to.
- Temozolomide capsules contain a white capsule body with a color cap and the colors vary based on the dosage strength. Your doctor 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 maybe different whenever you start a new cycle.**
- **Do not** take more Temozolomide capsules than prescribed.
- Talk to your doctor or pharmacist before taking your dose if you are not sure how much Temozolomide capsules to take. This will help to prevent taking too much 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.
- **Swallow Temozolomide capsules whole.** Do not chew, open, or split the capsules.
- Take Temozolomide capsules at the same time each day.

- Take Temozolomide capsules the same way each time, either with food or without food.
- 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, flush the area with water.
- To help reduce nausea and vomiting, try to take Temozolomide capsules on an empty stomach or bedtime. Your doctor may prescribe medicine to prevent or treat nausea, or other medicines to lessen side effects with Temozolomide capsules.
- See your doctor regularly to check your progress. Your doctor will check you for side effects.
- If you take more Temozolomide capsules than prescribed, call your doctor or get emergency medical help right away.

What are the possible side effects of Temozolomide capsules?

Temozolomide capsules can cause serious side effects, including:

- See "What is the most important information I should know about Temozolomide capsules?"
- **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.
- Your doctor will do blood tests regularly to check your blood cell counts before you start and during treatment with Temozolomide capsules.
- Your doctor 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.
- **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 doctor will monitor you for this.
- **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 doctor for low blood cell counts and this infection.
- Tell your doctor if you have any of the following signs and symptoms of PCP infection: shortness of breath, or fever, chills, dry cough.
- Liver problems. Liver problems can happen with Temozolomide capsules and can sometimes be severe and lead to death. Your doctor 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.

Common side effects with Temozolomide capsules include:

- hair loss unable to move (paralysis) on one
- feeling tired side of the body
- nausea and vomiting weakness

• headache	• fever
• constipation	• dizziness
• loss of appetite	• coordination problems
• convulsions	• viral infection
• rash	• memory loss
• diarrhea	• sleep problems

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

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

These are not all the possible side effects with Temozolomide capsules. For more information, ask your doctor 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 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 the 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.

This leaflet summarizes the most important information about Temozolomide capsules. If you would like more information, talk with your doctor. You can ask your pharmacist or doctor for information about Temozolomide capsules that is written for health professionals.

For more information, contact Areva at 1-855-853-4760.

What are the ingredients in Temozolomide capsules?

Temozolomide capsules:

Active ingredient: temozolomide.

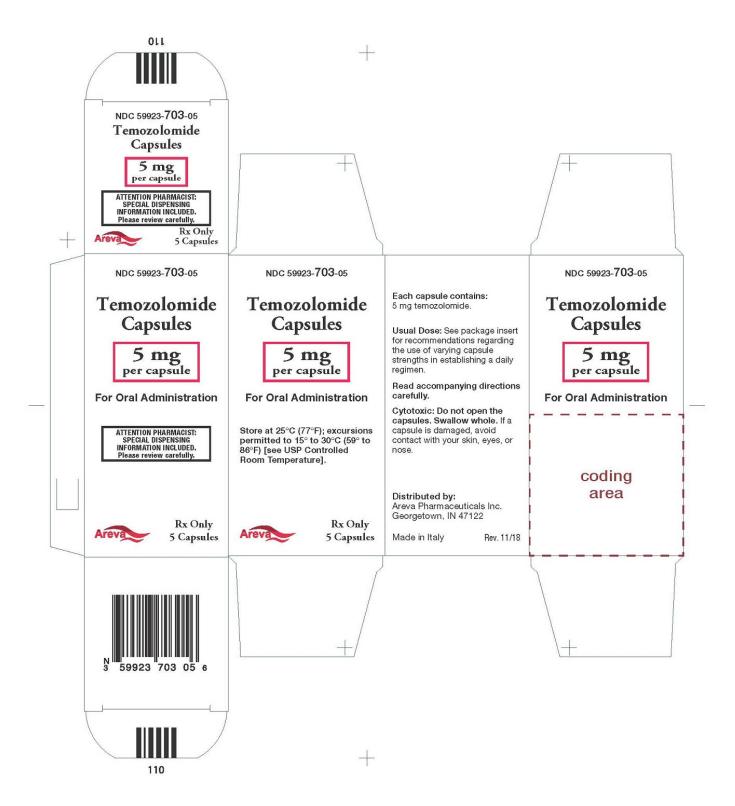
Inactive ingredients: lactose anhydrous, colloidal silicon dioxide, sodium starch glycolate, tartaric acid, stearic acid.

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 is imprinted with pharmaceutical branding ink, which contains shellac, propylene glycol, strong ammonia solution, potassium hydroxide, and black iron oxide.

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

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

Temozolomide capsules 100 mg: The pink cap contains gelatin, titanium dioxide and iron oxide red. Temozolomide capsules 140 mg: The blue cap contains gelatin, titanium dioxide, and FD&C Blue #2. Temozolomide capsules 180 mg: The orange cap contains gelatin, iron oxide red and titanium dioxide. Temozolomide capsules 250 mg: The white cap contains gelatin and titanium dioxide. Trademarks are the property of their respective owners. Distributed by: Areva Pharmaceuticals Inc. Georgetown, IN 47122 Made in Italy Revised: 02/2020 **Principal Display Panel - 5 mg per capsule, 5 capsules** NDC 59923-703-05 Temozolomide Capsules 5 mg per capsule For Oral Administration Rx Only 5 Capsules



Principal Display Panel - 5 mg per capsule, 14 capsules

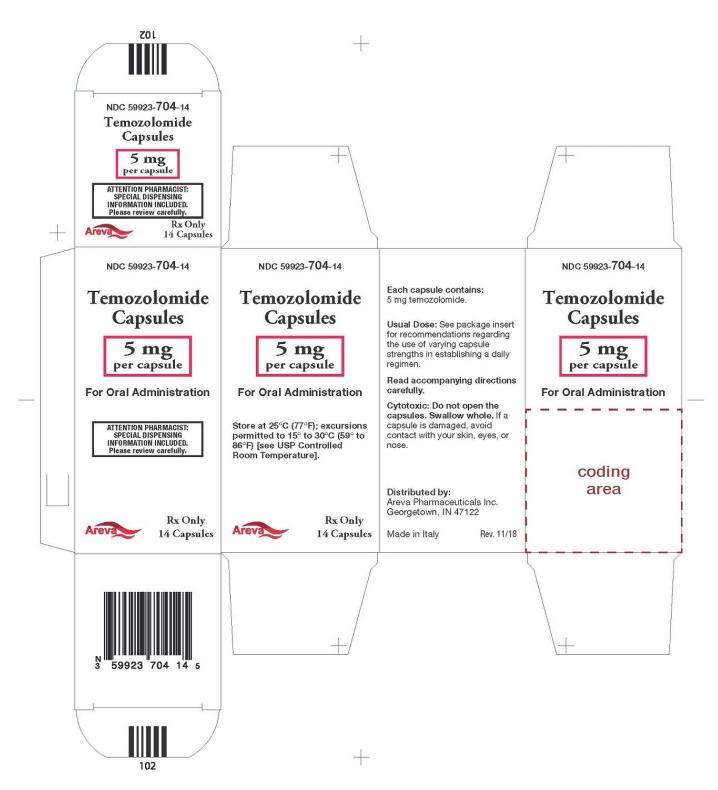
NDC 59923-704-14

Temozolomide Capsules

5 mg per capsule

For Oral Administration

Rx Only 14 Capsules



Principal Display Panel - 20 mg per capsule, 5 capsules

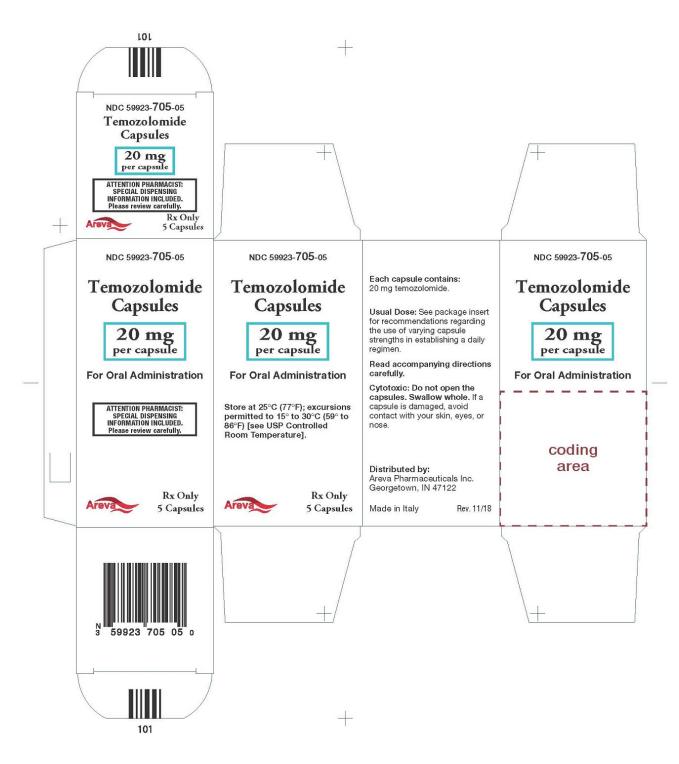
NDC 59923-705-05

Temozolomide Capsules

20 mg per capsule

For Oral Administration

Rx Only 5 Capsules



Principal Display Panel - 20 mg per capsule, 14 capsules

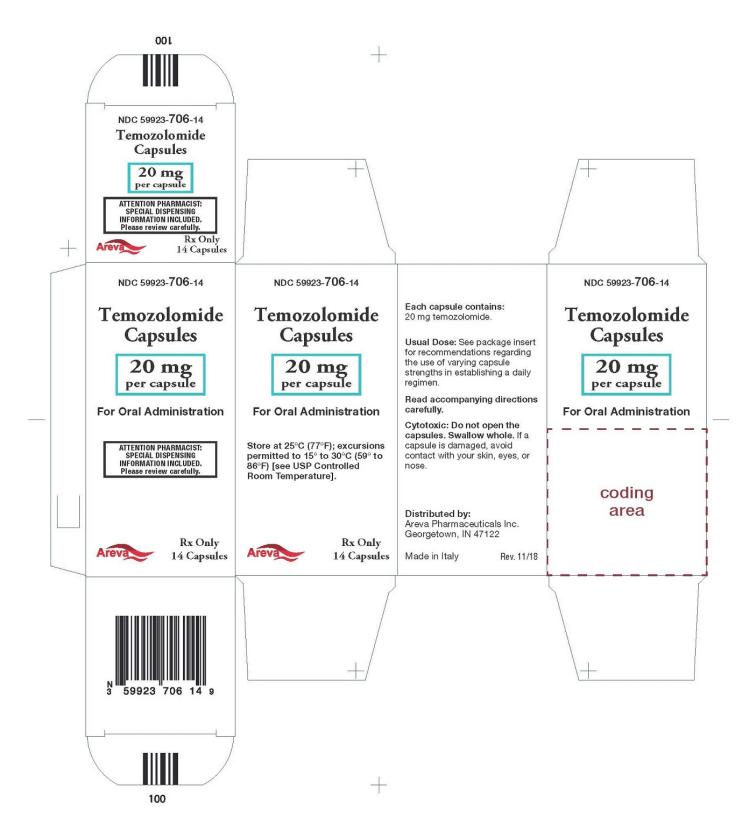
NDC 59923-706-14

Temozolomide Capsules

20 mg per capsule

For Oral Administration

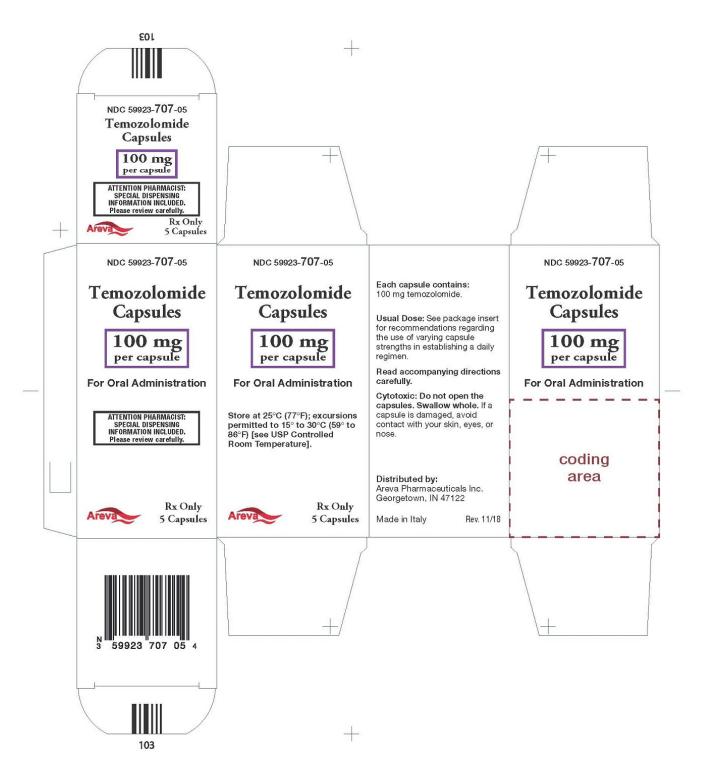
Rx Only 14 Capsules



Principal Display Panel - 100 mg per capsule, 5 capsules

NDC 59923-707-05 Temozolomide Capsules 100 mg per capsule For Oral Administration

Rx Only 5 Capsules



Principal Display Panel - 100 mg per capsule, 14 capsules

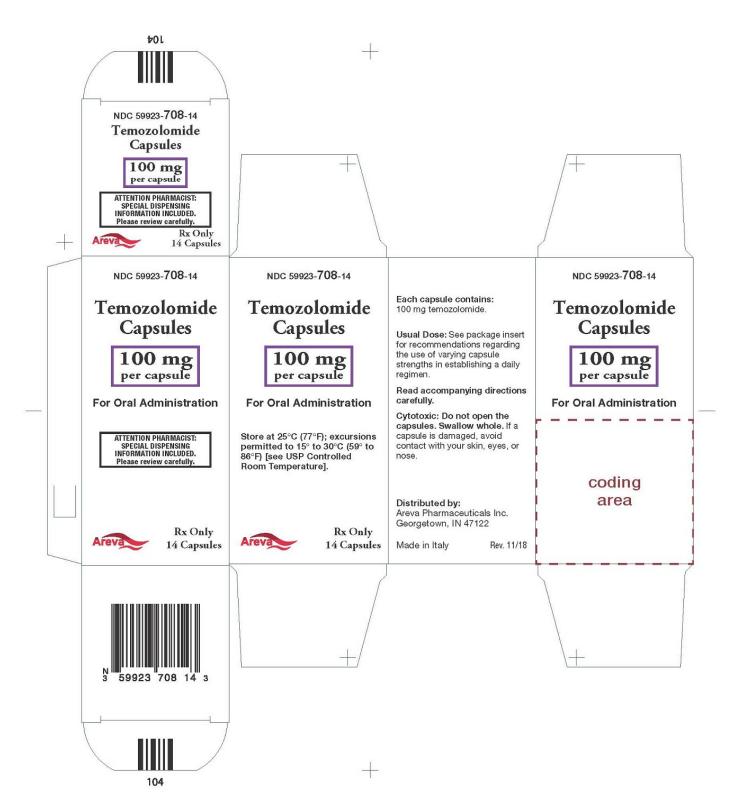
NDC 59923-708-14

Temozolomide Capsules

100 mg per capsule

For Oral Administration

Rx Only 14 Capsules



Principal Display Panel - 140 mg per capsule, 5 capsules

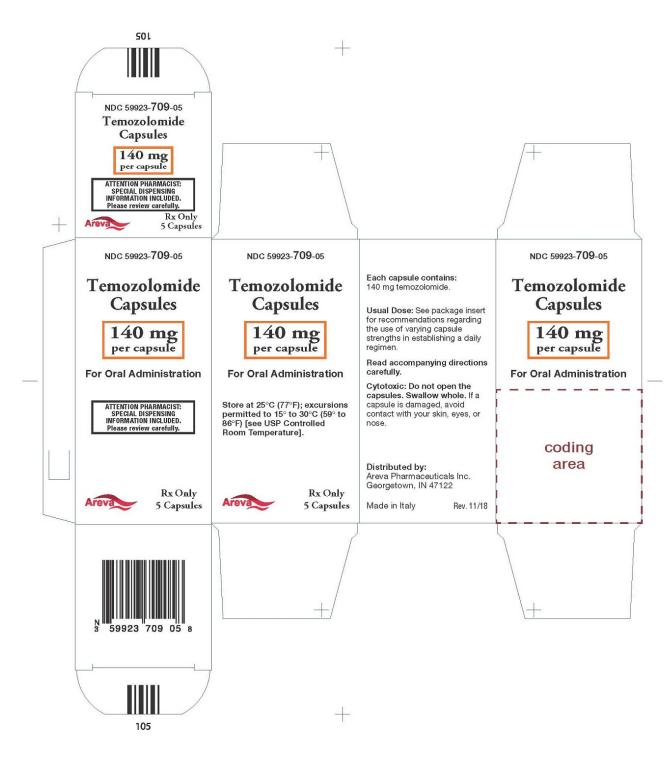
NDC 59923-709-05

Temozolomide Capsules

140 mg per capsule

For Oral Administration

Rx Only 5 Capsules



Principal Display Panel - 140 mg per capsule, 14 capsules

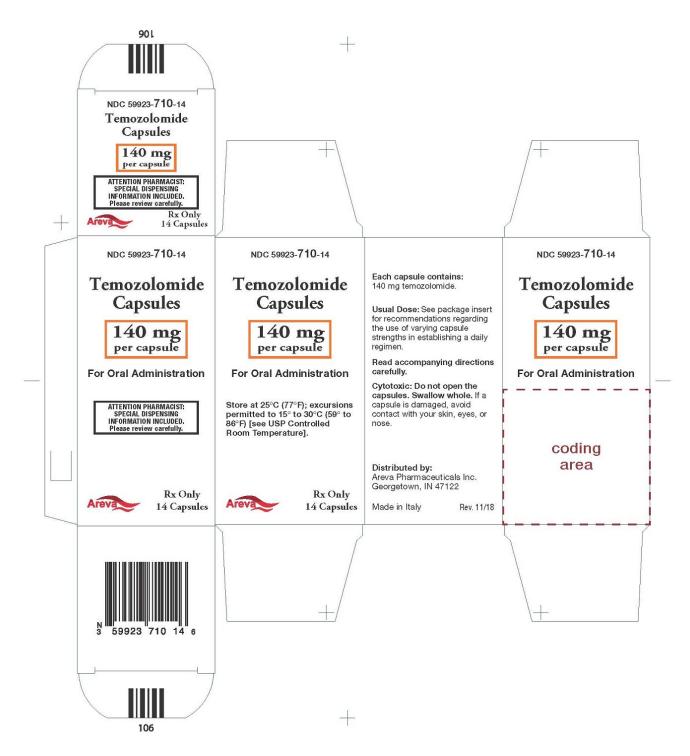
NDC 59923-710-14

Temozolomide Capsules

140 mg per capsule

For Oral Administration

Rx Only 14 Capsules



Principal Display Panel - 180 mg per capsule, 5 capsules

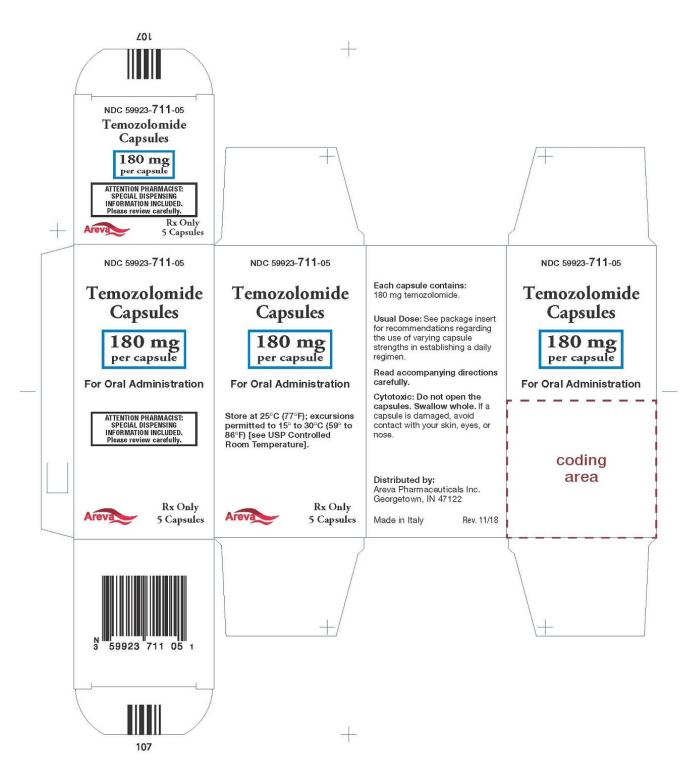
NDC 59923-711-05

Temozolomide Capsules

180 mg per capsule

For Oral Administration

Rx Only 5 Capsules

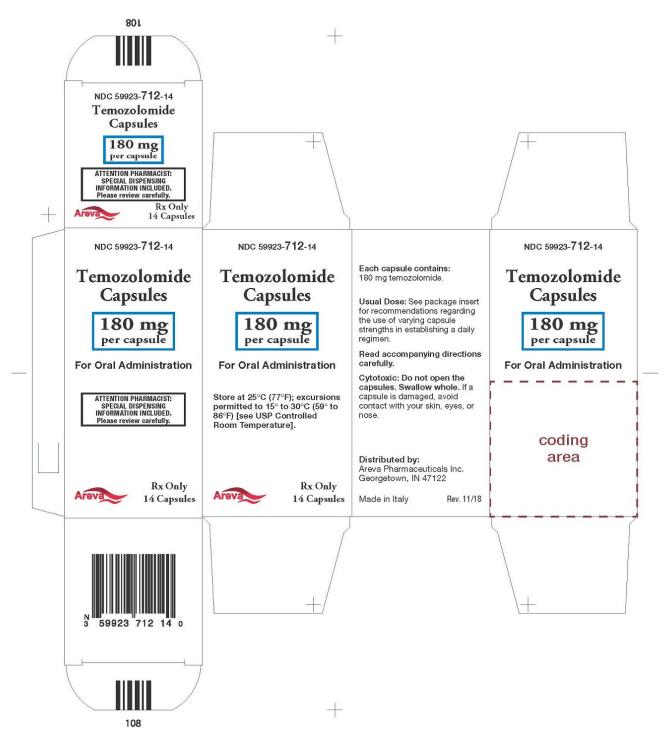


Principal Display Panel - 180 mg per capsule, 14 capsules

NDC 59923-712-14 Temozolomide Capsules 180 mg per capsule

For Oral Administration

Rx Only 14 Capsules



Principal Display Panel - 250 mg per capsule, 5 capsules

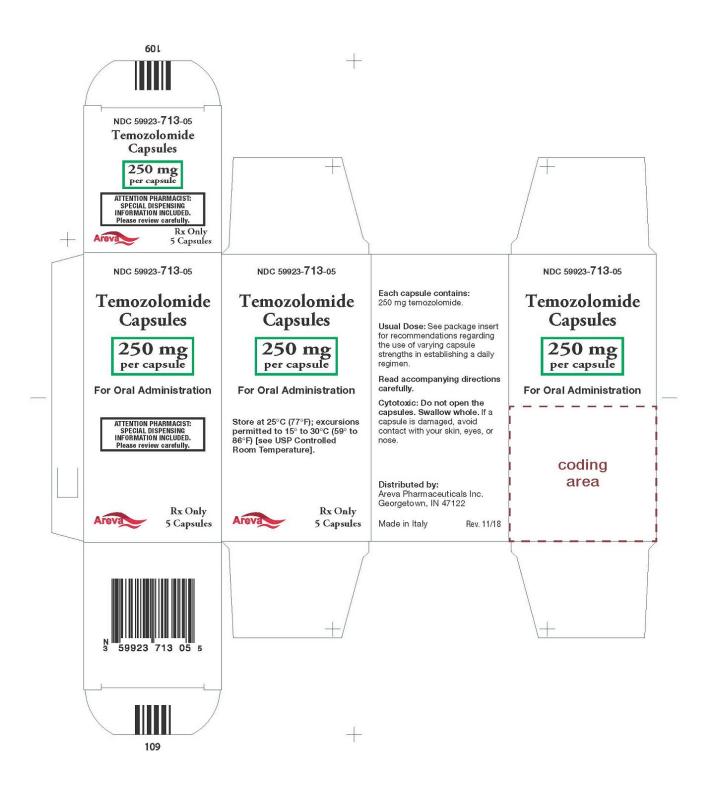
NDC 59923-713-05

Temozolomide Capsules

250 mg per capsule

For Oral Administration

Rx Only 5 Capsules



TEMOZOLOMIDE			
temozolomide capsule			
Product Information			
Product T ype	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:59923-712
Route of Administration	ORAL		
Active Ingredient/Active M	Aoiety		

Ingredient Name			Ba	sis of Strength	Strength	
ΓΕΜΟΖΟLOMIDE ((UNII: YF1K15M17Y) (TEMOZOLOMIDE - UNII:YF1K15M17Y)			TEM	OZOLOMIDE	180 mg
Inactive Ingredi	ents					
		Ingredient Nan	ne			Strength
STEARIC ACID (UNI	I: 4ELV7Z					
GELATIN (UNII: 2G8	6QN327L))				
SHELLAC (UNII: 46 N	[107B71O])				
PROPYLENE GLYC	DL (UNII:	6DC9Q167V3)				
WATER (UNII: 059QI	F0KO0R)					
TITANIUM DIO XIDE	E (UNII: 151	FIX9V2JP)				
SO DIUM STARCH G	LYCOLA	TE TYPE A POTATO (UNII: 5856	6J3G2A2)			
ANHYDRO US LACT	OSE (UNI	I: 3SY5LH9PMK)				
AMMONIA (UNII: 513	8Q19F1X))				
PO TASSIUM HYDRO	DXIDE (UI	NII: WZH3C48M4T)				
TARTARIC ACID (UI	NII: W4888	8 I119 H)				
FERRIC OXIDE RED	(UNII: 1K	09F3G675)				
FERROSOFERRIC C	XIDE (UN	NII: XM0 M8 7F357)				
Product Charac Color		S hite, orange	Score		no score	
Shape		APSULE	Size		22mm	
Flavor			Imprint Code	a	180	
Contains			Imprint Cou	5	100	
Contains						
Packaging						
# Item Code		Package Description		Marketing Date	Start Market	ing End Dat
NDC:59923-712-	1 in 1 CA	RTON		0 1/25/20 19		
1 14		OTTLE CLASS. Type 0. Note Cor	1			
1 14	14 in 1 BO Product	OTTLE, GLASS; Type 0: Not a Cor	mbination			
1 14 1	Product		mbina tio n			
Marketing In	Product forma	tion		Marketing Star	t Date Marketi	ing End Date
1 14 1	Product forma ry Ap			Marketing Star 01/25/2019	t Date Market	ing End Date

TEMOZOLOMIDE			
temozolomide capsule			
Product Information			
Product T ype	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:59923-713

Active Ingredie	nt/Active Moi	ety				
	In	gredient Name		Basis of S	strength	Strength
TEMOZOLOMIDE () (TEMOZOLOMIDE - UNII:YF1K1	5M17Y)	TEMOZOLOI	_	50 mg
Inactive Ingred	ients					
		Ingredient Name			St	rength
SILICON DIO XIDE	(UNII: ETJ7Z6XBU	(4)				
TARTARIC ACID (U	NII: W4888I119H)					
STEARIC ACID (UN	II: 4ELV7Z65AP)					
WATER (UNII: 059Q	F0KO0R)					
AMMONIA (UNII: 51	38 Q 19 F1X)					
GELATIN (UNII: 2G8	6QN327L)					
SO DIUM STARCH O	GLYCOLATE TYP	PE A POTATO (UNII: 5856J3G2A	2)			
SHELLAC (UNII: 461	N107B71O)					
ANHYDRO US LACT	OSE (UNII: 3SY51	.H9PMK)				
POTASSIUM HYDR	OXIDE (UNII: WZH	BC48 M4T)				
TITANIUM DIO XID	E (UNII: 15FIX9V2J	P)				
FERROSOFERRIC	DXIDE (UNII: XM0	M87F357)				
PROPYLENE GLYC	OL (UNII: 6DC9Q	167V3)				
Product Charac	teristics					
Color	white	Score		1	no score	
Shape	CAPSUI	LE Size			22mm	
Flavor		Imprint C	ode		250	
Contains						
Packaging						
# Item Code		Package Description		Marketing Start Date	• Marketing	End Dat
1 NDC:59923-713- 05	1 in 1 CARTON			0 1/25/20 19		
1	5 in 1 BOTTLE, 0	GLASS; Type 0: Not a Combinatio	a Product	t		
	c					
•						
Marketing In Marketing Catego		on Number or Monograph Cit	tion	Marketing Start Date	Marketing	End Date

TEMOZOLOMIDE

temozolomide capsule

	tion						
Product Type		HUMAN PRESCRIPTION	DRUG	Item Code	(Source)	NDC:5	9923-706
Route of Administra	tion	ORAL					
Active Ingredien	t/Active Moi	ety					
	Ing	gredient Name			Basis of S	trength	Strength
TEMOZOLOMIDE (U	NII: YF1K15M17Y) (TEMOZOLOMIDE - UNI	II:YF1K15M17Y)		TEMOZOLON	AIDE	20 mg
Inactive Ingredie	nts						
-		Ingredient Nam	ne				Strength
TARTARIC ACID (UN	II: W4888I119H)						
SHELLAC (UNII: 46 N1	07B71O)						
PROPYLENE GLYCO	L (UNII: 6DC9Q	167V3)					
WATER (UNII: 059QF0	KO0R)						
AMMONIA (UNII: 5138	Q19F1X)						
FERRIC O XIDE YELL	OW (UNII: EX43	8O2MRT)					
STEARIC ACID (UNII:	4ELV7Z65AP)						
PO TASSIUM HYDRO	XIDE (UNII: WZH	3C48M4T)					
GELATIN (UNII: 2G86	QN327L)						
TITANIUM DIO XIDE (UNII: 15FIX9V2J	Р)					
ANHYDROUS LACTO	SE (UNII: 3SY5L	H9PMK)					
	· ·	1					
SILICON DIOXIDE (U	NII: ETJ7Z6 XBU	4)					
SILICON DIO XIDE (U SODIUM STARCH GL	NII: ETJ7Z6XBU YCOLATE TYP	4) E A POTATO (UNII: 5856	6J3G2A2)				
SILICON DIOXIDE (U	NII: ETJ7Z6XBU YCOLATE TYP	4) E A POTATO (UNII: 5856	5J3G2A2)				
SILICON DIO XIDE (U SODIUM STARCH GL	NII: ETJ7Z6XBU YCOLATE TYP	4) E A POTATO (UNII: 5856	5J3G2A2)				
SILICON DIOXIDE (U SODIUM STARCH GL FERROSOFERRIC OX	NII: ETJ7Z6XBU YCOLATE TYP KIDE (UNII: XM0)	4) E A POTATO (UNII: 5856	5J3G2A2)				
silicon dio xide (u so dium starch gl ferro so ferric o y Product Characte	NII: ETJ7Z6XBU YCOLATE TYP KIDE (UNII: XMO)	4) E A POTATO (UNII: 5856 M87F357)				no score	
SILICON DIOXIDE (U SODIUM STARCH GL FERROSOFERRIC OX Product Characte Color	NII: ETJ7Z6 XBU YCOLATE TYP KIDE (UNII: XM0) eristics white, yell	4) E A POTATO (UNII: 5856 M87F357) o w	Score			no score 18 mm	
SILICON DIO XIDE (U SODIUM STARCH GL FERROSOFERRIC OX Product Characte Color Shape	NII: ETJ7Z6XBU YCOLATE TYP KIDE (UNII: XMO)	4) E A POTATO (UNII: 5856 M87F357) o w	Score Size	2		18 mm	
SILICON DIOXIDE (U SODIUM STARCH GL FERROSOFERRIC OX Product Characte Color Shape Flavor	NII: ETJ7Z6 XBU YCOLATE TYP KIDE (UNII: XM0) eristics white, yell	4) E A POTATO (UNII: 5856 M87F357) o w	Score	2			
silicon dio xide (u so dium starch gl ferro so ferric o y Product Characte	NII: ETJ7Z6 XBU YCOLATE TYP KIDE (UNII: XM0) eristics white, yell	4) E A POTATO (UNII: 5856 M87F357) o w	Score Size	2		18 mm	
SILICON DIOXIDE (U SODIUM STARCH GL FERROSOFERRIC OX Product Characte Color Shape Flavor	NII: ETJ7Z6 XBU YCOLATE TYP KIDE (UNII: XM0) eristics white, yell	4) E A POTATO (UNII: 5856 M87F357) o w	Score Size	2		18 mm	
SILICON DIO XIDE (U SODIUM STARCH GL FERROSOFERRIC O X Product Characte Color Shape Flavor Contains Packaging	NII: ETJ7Z6 XBU YCOLATE TYP KIDE (UNII: XM0) eristics white, yell CAPSULE	4) E A POTATO (UNII: 5856 M87F357) o w	Score Size Imprint Code	Marke	ting Start Date	18 mm 20	ing End Dat
SILICON DIO XIDE (U SO DIUM STARCH GL FERRO SO FERRIC O 2 Product Characte Color Shape Flavor Contains Packaging J Item Code	NII: ETJ7Z6 XBU YCOLATE TYP KIDE (UNII: XM0) eristics white, yell CAPSULE	4) E A POTATO (UNII: 5856 M87F357)	Score Size Imprint Code	Marke	Date	18 mm 20	ing End Dat
SILICON DIO XIDE (U) SO DIUM STARCH GL FERRO SO FERRIC O 2 Product Characte Color Shap e Flavor Contains Packaging I ttem Code 1 NDC:59923-706- 14	NII: ETJ7Z6 XBU YCOLATE TYP KIDE (UNII: XM0) eristics white, yell CAPSULE	4) E A POTATO (UNII: 5856 M87F357)	Score Size Imprint Code	Marke	Date	18 mm 20	ing End Dat
SILICON DIO XIDE (U SO DIUM STARCH GL FERROSOFERRIC O 2 Product Characte Color Shape Flavor Contains Packaging I tem Code 1 NDC:59923-706- 14	NII: ETJ7Z6 XBU YCOLATE TYP KIDE (UNII: XM0) Pristics white, yell CAPSULE 1 in 1 CARTON 14 in 1 BOTTLE,	4) E A POTATO (UNII: 5856 M87F357) ow	Score Size Imprint Code	Marke	Date	18 mm 20	ing End Da
SILICON DIO XIDE (U) SO DIUM STARCH GL FERROSOFERRIC O 2 Product Characte Color Shape Flavor Contains Packaging I tem Code 1 NDC:59923-706- 14	NII: ETJ7Z6 XBU YCOLATE TYP KIDE (UNII: XM0) eristics white, yell CAPSULE 1 in 1 CARTON 14 in 1 BOTTLE, Product	4) E A POTATO (UNII: 5856 M87F357) ow	Score Size Imprint Code	Marke	Date	18 mm 20	ing End Dat
SILICON DIO XIDE (U SO DIUM STARCH GL FERRO SO FERRIC O 2 Product Characte Color Shap e Flavor Contains Packaging I tem Code 1 NDC:59923-706- 14	NII: ETJ7Z6 XBU YCOLATE TYP XIDE (UNII: XM0) eristics white, yell CAPSULE 1 in 1 CARTON 14 in 1 BOTTLE, Product Ormation	4) E A POTATO (UNII: 5856 M87F357) ow	Score Size Imprint Code	Marke 1 0 1/25/20 19	Date	18mm 20 Market	ing End Date

TEMOZOLO	MIDE						
emozolomide cap	osule						
Product Inform	nation						
			NDBUC		(0)	NDC	0000 704
Product Type		HUMAN PRESCRIPTIO	N DRUG	Item Code	(Source)	NDC:5	9923-704
Route of Administ	ration	ORAL					
Active Ingredie	ont/Active Moi	۲v					
		gredient Name			Basis of St	rength	Strength
TEMOZOLOMIDE) (TEMOZOLOMIDE - U	NII:YF1K15M17Y)		TEMOZOLOM	-	5 mg
	(8
Inactive Ingred	ients						
		Ingredient N	ame				Strength
STEARIC ACID (UN							
PROPYLENE GLYC							
POTASSIUM HYDR							
FD&C BLUE NO. 2							
FERROSOFERRIC							
ANHYDROUS LACT							
SILICON DIO XIDE			56126242				
		E A POTATO (UNII: 58	56J3G2A2)				
TARTARIC ACID (U							
SHELLAC (UNII: 46)							
WATER (UNII: 059Q AMMONIA (UNII: 51							
GELATIN (UNII: 2G8							
TITANIUM DIO XID		D)					
FERRIC O XIDE YEI							
FERRIC O'AIDE TE		5021vii(1)					
Product Charac	cteristics						
Color	green, wh	ite	Score		I	no score	
Shape	CAPSULI	[Size		1	l6mm	
Flavor			Imprint Code		5	5	
Contains							
Packaging							
# Item Code		Package Descriptio	n		ting Start Date	Marketi	ing End Dat
1 NDC:59923-704- 14	1 in 1 CARTON			0 1/25/20 19			
1	14 in 1 BOTTLE, Product	GLASS; Type 0: Not a C	Combination				

Marketing Category ANDA	ANDA204639 DE n n Active Moie Ing	HUMAN PRESCRIPTIO ORAL ety gredient Name	N DRUG	Marketing Start Dat 0 1/25/20 19 Item Code (Source)		ng End Date
FEMOZOLOMII emozolomide capsule Product Information Product Type Route of Administration Active Ingredient/A	DE n n active Moie Ing	HUMAN PRESCRIPTIO ORAL ety gredient Name		Item Code (Source)	NDC:5	9923-703
emozolomide capsule Product Information Product Type Route of Administration Active Ingredient/A	n n Active Moie Ing	ORAL ety gredient Name			NDC:5	9923-703
emozolomide capsule Product Information Product Type Route of Administration Active Ingredient/A	n n Active Moie Ing	ORAL ety gredient Name			NDC:5	9923-703
emozolomide capsule Product Information Product Type Route of Administration Active Ingredient/A	n n Active Moie Ing	ORAL ety gredient Name			NDC:5	9923-703
Product Information Product Type Route of Administration Active Ingredient/A	n Active Moie Ing	ORAL ety gredient Name			NDC:5	9923-703
Product Type Route of Administration Active Ingredient/A	n Active Moie Ing	ORAL ety gredient Name			NDC:5	9923-703
Route of Administration Active Ingredient/A	ctive Moie Ing	ORAL ety gredient Name			NDC:5	9923-703
Active Ingredient/A	ctive Moie Ing	ety gredient Name				
U U	Ing	gredient Name				
U U	Ing	gredient Name				
FEMOZOLOMIDE (UNII:		•		- ·		
TEMOZOLOMIDE (UNII:	YF1K15M17Y)	(TEMOZOLOMIDE - U		Basis o	f Strength	Strength
(NII:YF1K15M17Y)	TEMOZOI	LOMIDE	5 mg
Inactive Ingredients	S	Ingradiant N	ma			Strangth
	E (LINIL VMO)	Ingredient Na	ame			Strength
FERROSOFERRIC OXIDI ANHYDROUS LACTOSE						
SO DIUM STARCH GLYC			56J3G2A2)			
AMMO NIA (UNII: 5138Q19			, , , , , , , , , , , , , , , , , , , ,			
STEARIC ACID (UNII: 4EL						
SHELLAC (UNII: 46 N10 7B						
PROPYLENE GLYCOL (U	UNII: 6 DC 9 Q 1	l67V3)				
WATER (UNII: 059QF0KO	00R)					
TARTARIC ACID (UNII: W	V4888I119H)					
FD&C BLUE NO. 2 (UNII:	: L06K8R7DQ	K)				
PO TASSIUM HYDRO XID	DE (UNII: WZH	3C48M4T)				
GELATIN (UNII: 2G86QN3						
TITANIUM DIO XIDE (UN						
FERRIC OXIDE YELLOW						
SILICON DIOXIDE (UNII:	EIJ/20ABU4	+)				
Product Characteris	stics					
Color	green, whi	ite	Score		no score	
Shape	CAPSULE		Size		16 mm	
Flavor			Imprint Code		5	
Contains						
Packaging						
# Item Code		Package Descriptio	n	Marketing Start D	ate Marketi	ng End Dat

1 NDC:59923-703-	1 in 1 CARTON		01/25/2019		
1 05			0 1/23/20 19		
1	5 in 1 BOTTLE, (Product	GLASS; Type 0: Not a Combination			
	liouuci				
Marketing Inf	formation				
Marketing Categor		on Number or Monograph Citation	Marketing Start Date	Marketi	ng End Date
ANDA	ANDA204639		0 1/25/20 19	ivitil ne un	ing Linu Dutt
TEMOZOLON					
emozolomide caps	ule				
Product Informa	ition				
Product Type		HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:5	9923-707
Route of Administra	ation	ORAL			
Active Ingredier					
		gredient Name		Strength	Strengtl
TEMOZOLOMIDE (U	JNII: YF1K15M17Y) (TEMOZOLOMIDE - UNII:YF1K15M17)	d) TEMOZOLO	OMIDE	100 mg
Inactive Ingredi	ents				
		Ingredient Name			Strength
		0			Strength
		E A POTATO (UNII: 5856J3G2A2)			Strength
SHELLAC (UNII: 46 N	107B71O)	0			burngu
SHELLAC (UNII: 46N WATER (UNII: 059QF	107B71O) 70KO0R)	0			onengen
SHELLAC (UNII: 46N WATER (UNII: 059QF AMMONIA (UNII: 513)	107B71O) 70KO0R) 8Q19F1X)	E A POTATO (UNII: 5856J3G2A2)			onengin
SHELLAC (UNII: 46N WATER (UNII: 059QF AMMONIA (UNII: 513 FERROSOFERRIC O	107B71O) 0KO0R) 8Q19F1X) XIDE (UNII: XM0	E A POTATO (UNII: 5856J3G2A2)			onengin
SHELLAC (UNII: 46N WATER (UNII: 059QF AMMONIA (UNII: 513 FERROSOFERRIC O TARTARIC ACID (UN	107B710) 0K00R) 8Q19F1X) XIDE (UNII: XM0 NII: W48881119H)	E A POTATO (UNII: 5856J3G2A2)			
SHELLAC (UNII: 46N WATER (UNII: 059QF AMMONIA (UNII: 513 FERROSOFERRIC O TARTARIC ACID (UNII STEARIC ACID (UNII	107B710) 0K00R) 8Q19F1X) XIDE (UNII: XM0) NII: W48881119H) : 4ELV7Z65AP)	E A POTATO (UNII: 5856J3G2A2) M87F357)			
SHELLAC (UNII: 46N WATER (UNII: 059QF AMMONIA (UNII: 5133 FERROSOFERRIC O TARTARIC ACID (UN STEARIC ACID (UNII PROPYLENE GLYCO	107B710) 0K00R) 8Q19F1X) XIDE (UNII: XM0 III: W48881119H) : 4ELV7Z65AP) DL (UNII: 6DC9Q	E A POTATO (UNII: 5856J3G2A2) M87F357) 167V3)			
SHELLAC (UNII: 46N WATER (UNII: 059QF AMMONIA (UNII: 5133 FERROSOFERRIC O TARTARIC ACID (UN STEARIC ACID (UNII PROPYLENE GLYCO	107B710) 0K00R) 8Q19F1X) XIDE (UNII: XM0 XII: W48881119H) : 4ELV7Z65AP) DL (UNII: 6DC9Q XIDE (UNII: WZH	E A POTATO (UNII: 5856J3G2A2) M87F357) 167V3) 3C48M4T)			
SHELLAC (UNII: 46N WATER (UNII: 059QF AMMONIA (UNII: 5133 FERROSOFERRIC O TARTARIC ACID (UNI STEARIC ACID (UNII PROPYLENE GLYCC POTASSIUM HYDRO FERRIC OXIDE RED	107B710) 0K00R) 8Q19F1X) XIDE (UNII: XM0 XII: W48881119H) : 4ELV7Z65AP) DL (UNII: 6DC9Q XIDE (UNII: WZH (UNII: 1K09F3G6	E A POTATO (UNII: 5856J3G2A2) M87F357) 167V3) 3C48M4T)			
SHELLAC (UNII: 46N WATER (UNII: 059QF AMMONIA (UNII: 513) FERROSOFERRIC O TARTARIC ACID (UN STEARIC ACID (UNII PROPYLENE GLYCC POTASSIUM HYDRO	107B710) 0K00R) 8Q19F1X) XIDE (UNII: XM0) XIIE (UNII: XM0) 4ELV7Z65AP) DL (UNII: 6DC9Q XIDE (UNII: WZH (UNII: 1K09F3G6) 6QN327L)	E A POTATO (UNII: 5856J3G2A2) M87F357) 167V3) 3C48 M4T) 75)			
SHELLAC (UNII: 46N WATER (UNII: 059QF AMMONIA (UNII: 513) FERROSOFERRIC O TARTARIC ACID (UNI STEARIC ACID (UNII: PROPYLENE GLYCC POTASSIUM HYDRO FERRIC OXIDE RED GELATIN (UNII: 2G86	107B710) 0K00R) 8Q19F1X) XIDE (UNII: XM0) NII: W48881119H) : 4ELV7Z65AP) OL (UNII: 6DC9Q XIDE (UNII: WZH (UNII: 1K09F3G67 5QN327L) (UNII: 15FIX9V2J	E A POTATO (UNII: 5856J3G2A2) M87F357) 167V3) 3C48 M4T) 75) P)			
SHELLAC (UNII: 46N WATER (UNII: 059QF AMMONIA (UNII: 513) FERROSOFERRIC O TARTARIC ACID (UNI STEARIC ACID (UNII PROPYLENE GLYCC POTASSIUM HYDRO FERRIC OXIDE RED GELATIN (UNII: 2G86 TITANIUM DIOXIDE ANHYDROUS LACTO	107B710) 0K00R) 8Q19F1X) XIDE (UNII: XM0) III: W48881119H) : 4ELV7Z65AP) DL (UNII: 6DC9Q VIDE (UNII: WZH (UNII: 1K09F3G67 5QN327L) (UNII: 15FIX9V2J DSE (UNII: 3SY5L	E A POTATO (UNII: 5856J3G2A2) M87F357) 167V3) 3C48 M4T) 75) P) H9 PMK)			
SHELLAC (UNII: 46N WATER (UNII: 059QF AMMONIA (UNII: 5133 FERROSOFERRIC O TARTARIC ACID (UNI STEARIC ACID (UNII PROPYLENE GLYCO POTASSIUM HYDRO FERRIC OXIDE RED GELATIN (UNII: 2G86 TITANIUM DIOXIDE	107B710) 0K00R) 8Q19F1X) XIDE (UNII: XM0) III: W48881119H) : 4ELV7Z65AP) DL (UNII: 6DC9Q VIDE (UNII: WZH (UNII: 1K09F3G67 5QN327L) (UNII: 15FIX9V2J DSE (UNII: 3SY5L	E A POTATO (UNII: 5856J3G2A2) M87F357) 167V3) 3C48 M4T) 75) P) H9 PMK)			
SHELLAC (UNII: 46N WATER (UNII: 059QF AMMONIA (UNII: 513) FERROSOFERRIC O TARTARIC ACID (UN STEARIC ACID (UNII PROPYLENE GLYCC POTASSIUM HYDRO FERRIC OXIDE RED GELATIN (UNII: 2G86 TITANIUM DIOXIDE ANHYDRO US LACTO SILICON DIOXIDE (U	107B710) 0K00R) 8Q19F1X) XIDE (UNII: XM0) XIDE (UNII: XM0) 4ELV7Z65AP) L (UNII: 6DC9Q XIDE (UNII: 6DC9Q XIDE (UNII: WZH (UNII: 1K09F3G67 5QN327L) (UNII: 15FIX9V2J DSE (UNII: 3SY5L JNII: ETJ7Z6XBU	E A POTATO (UNII: 5856J3G2A2) M87F357) 167V3) 3C48 M4T) 75) P) H9 PMK)			
SHELLAC (UNII: 46N WATER (UNII: 059QF AMMONIA (UNII: 513) FERROSOFERRIC O TARTARIC ACID (UNI STEARIC ACID (UNII PROPYLENE GLYCC POTASSIUM HYDRO FERRIC OXIDE RED GELATIN (UNII: 2G86 TITANIUM DIOXIDE ANHYDROUS LACTO	107B710) 0K00R) 8Q19F1X) XIDE (UNII: XM0) XIDE (UNII: XM0) 4ELV7Z65AP) L (UNII: 6DC9Q XIDE (UNII: 6DC9Q XIDE (UNII: WZH (UNII: 1K09F3G67 5QN327L) (UNII: 15FIX9V2J DSE (UNII: 3SY5L JNII: ETJ7Z6XBU	E A POTATO (UNII: 5856J3G2A2) M87F357) 167V3) 3C48M4T) 75) P) H9 PMK) 4)		по score	
SHELLAC (UNII: 46N WATER (UNII: 059QF AMMONIA (UNII: 5133 FERROSOFERRIC O TARTARIC ACID (UNI STEARIC ACID (UNII PROPYLENE GLYCO POTASSIUM HYDRO FERRIC OXIDE RED GELATIN (UNII: 2G86 TITANIUM DIOXIDE ANHYDRO US LACTO SILICON DIOXIDE (UNII) PRODUCT Charact Color	107B710) 0K00R) 8Q19F1X) XIDE (UNII: XM01 XIDE (UNII: XM01 XIDE (UNII: XM01 XIDE (UNII: ADC9Q XIDE (UNII: 6DC9Q XIDE (UNII: 6DC9Q XIDE (UNII: WZH (UNII: 1K09F3G67 5QN327L) (UNII: 15FIX9V2J DSE (UNII: 3SY5L JNII: ETJ7Z6XBU	E A POTATO (UNII: 5856J3G2A2) M87F357) 167V3) 3C48M4T) 75) P) H9 PMK) 4) te Score			
SHELLAC (UNII: 46N WATER (UNII: 059QF AMMONIA (UNII: 513) FERROSOFERRIC O TARTARIC ACID (UNI STEARIC ACID (UNII PROPYLENE GLYCC POTASSIUM HYDRO FERRIC OXIDE RED GELATIN (UNII: 2G86 TITANIUM DIOXIDE ANHYDROUS LACTO SILICON DIOXIDE (UNII)	107B710) 0K00R) 8Q19F1X) XIDE (UNII: XM0) XIDE (UNII: XM0) 11: W48881119H) 4ELV7Z65AP) 0L (UNII: 6DC9Q 0XIDE (UNII: WZH (UNII: 15F1X9V2J 0SE (UNII: 3SY5L JNII: ETJ7Z6XBU eristics pink, whi	E A POTATO (UNII: 5856J3G2A2) M87F357) M87F357) H9 PMK) H9 PMK) 4) te Score		NO SCOTE	

P	ackaging			
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:59923-707- 05	1 in 1 CARTON	0 1/25/20 19	
1		5 in 1 BOTTLE, GLASS; Type 0: Not a Combination Product		
N	Aarketing Inf	ormation		
I	Marketing Categor	y Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
A	NDA	ANDA204639	0 1/25/20 19	

TEMOZOLOMIDE temozolomide capsule						
Product Information						
Product Type	HUMAN PRES	SCRIPTION DRUG	Item Code	(Source)	NDC:5	9923-711
Route of Administration	ORAL					
Active Ingredient/Active	Moiety					
	Ingredient Na	me		Basis of St	rength	Strength
TEMOZOLOMIDE (UNII: YF1K15	5M17Y) (TEMOZOLO	MIDE - UNII:YF1K15M17Y)		TEMOZOLOM	DE	180 mg
Inactive Ingredients						
	Ingre	dient Name				Strength
SODIUM STARCH GLYCOLATI	Е ТҮРЕ А РОТАТО	(UNII: 5856J3G2A2)				
STEARIC ACID (UNII: 4ELV7Z65	AP)					
FERROSOFERRIC OXIDE (UNII:	:XM0M87F357)					
SILICON DIO XIDE (UNII: ETJ7Z)	6XBU4)					
TARTARIC ACID (UNII: W488811						
PROPYLENE GLYCOL (UNII: 61						
POTASSIUM HYDRO XIDE (UNII	:WZH3C48M4T)					
GELATIN (UNII: 2G86QN327L)						
SHELLAC (UNII: 46 N107B710)						
WATER (UNII: 059QF0KO0R)						
AMMO NIA (UNII: 5138Q19F1X)						
TITANIUM DIO XIDE (UNII: 15FIX						
FERRIC O XIDE RED (UNII: 1K09						
ANHYDROUS LACTOSE (UNII: 3	5515LH9PWIK)					
Product Characteristics						
Color white	e, orange	Score		1	no score	

Shape	CAPSULE		Size			22mm	
Flavor			Imprint Code			180	
Contains							
Packaging							
# Item Code		Package Description		Marketing Sta	rt Date	Marketi	ng End Date
1 NDC:59923-711-05 1				0 1/25/20 19			-
1 5	5 in 1 BOTTLE, C	GLASS; Type 0: Not a Con	nbination Product				
Marketing Info	ormation						
Marketing Category	Applicatio	n Number or Monogra	ph Citation	Marketing Star	t Date	Marketir	ng End Date
ANDA	ANDA204639		C	1/25/2019			
FEMOZOLOM	IDE						
emozolomide capsul	le						
Product Informat	ion						
Product Type							
1 I U u u c i I y p c		HUMAN PRESCRIPTION	DRUG 1	item Code (Sour	ce)	NDC:59	923-705
	tion		DRUG	tem Code (Sour	rce)	NDC:59	923-705
Route of Administrat	tion	HUMAN PRESCRIPTION ORAL	DRUG	tem Code (Sour	rce)	NDC:59	9923-705
	tion		DRUG 1	item Code (Sour	·ce)	NDC:59	9923-705
Route of Administrat		ORAL	DRUG 1	item Code (Sour	rce)	NDC:59	9923-705
	/Active Moie	ORAL	DRUG				
Route of Administrat Active Ingredient	Active Moie/ Ing	ORAL ety gredient Name		Bas	sis of St	rength	Strength
Route of Administrat Active Ingredient	Active Moie/ Ing	ORAL		Bas		rength	
Route of Administrat Active Ingredient	Active Moie/ Ing	ORAL ety gredient Name		Bas	sis of St	rength	Strength
Route of Administrat Active Ingredient TEMOZOLOMIDE (UN	/ Active Moie Ing NII: YF1K15M17Y	ORAL ety gredient Name		Bas	sis of St	rength	Strength
Route of Administrat Active Ingredient	/ Active Moie Ing NII: YF1K15M17Y	ORAL ty gredient Name) (TEMOZOLOMIDE - UN	II:YF1K15M17Y)	Bas	sis of St	rength IDE	Strength 20 mg
Route of Administrat Active Ingredient TEMOZOLOMIDE (UN Inactive Ingredien	/Active Moid Ing NII: YF1K15M17Y nts	ORAL ety gredient Name	II:YF1K15M17Y)	Bas	sis of St	rength IDE	Strength
Route of Administrat Active Ingredient TEMOZOLOMIDE (UN Inactive Ingredien SHELLAC (UNII: 46N10	/Active Moie Ing NII: YF1K15M17Y nts)7B710)	ORAL ety gredient Name) (TEMOZOLOMIDE - UN Ingredient Nar	II:YF1K15M17Y)	Bas	sis of St	rength IDE	Strength 20 mg
Route of Administrat Active Ingredient TEMOZOLOMIDE (UN Inactive Ingredien SHELLAC (UNII: 46 N10 PROPYLENE GLYCOI	/Active Moie Ing NII: YF1K15M17Y nts 07B710) L (UNII: 6 DC9Q	ORAL ety gredient Name) (TEMOZOLOMIDE - UN Ingredient Nam	II:YF1K15M17Y) ne	Bas	sis of St	rength IDE	Strength 20 mg
Route of Administrat Active Ingredient TEMOZOLOMIDE (UN Inactive Ingredien SHELLAC (UNII: 46 N10 PROPYLENE GLYCOI SODIUM STARCH GLY	/Active Moie Ing NII: YF1K15M17Y nts)7B71O) L (UNII: 6DC9Q: YCOLATE TYP	ORAL ety gredient Name) (TEMOZOLOMIDE - UN Ingredient Nar	II:YF1K15M17Y) ne	Bas	sis of St	rength IDE	Strength 20 mg
Route of Administrat Active Ingredient TEMOZOLOMIDE (UN Inactive Ingredien SHELLAC (UNII: 46 N10 PROPYLENE GLYCOI SODIUM STARCH GLY TARTARIC ACID (UNII	/Active Moie Ing NII: YF1K15M17Y nts 07B710) L (UNII: 6 DC9 Q : YCOLATE TYP I: W48881119H)	ORAL ety gredient Name) (TEMOZOLOMIDE - UN Ingredient Nam	II:YF1K15M17Y) ne	Bas	sis of St	rength IDE	Strength 20 mg
Route of Administrat Active Ingredient TEMOZOLOMIDE (UN Inactive Ingredien SHELLAC (UNII: 46 N10 PROPYLENE GLYCOI SODIUM STARCH GLY TARTARIC ACID (UNII AMMONIA (UNII: 5138 (/Active Moie Ing NII: YF1K15M17Y NII: YF1K15M17Y NII: YF1K15M17Y NII: YF1K15M17Y NII: YF1K15M17Y NII: YF1K15M17Y NII: 6DC9Q YCOLATE TYP I: W48881119H) Q19F1X)	ORAL ety gredient Name) (TEMOZOLOMIDE - UN: Ingredient Nam 167V3) E A POTATO (UNII: 5856	II:YF1K15M17Y) ne	Bas	sis of St	rength IDE	Strength 20 mg
Route of Administrat Active Ingredient TEMOZOLOMIDE (UN Inactive Ingredien SHELLAC (UNII: 46 N10 PROPYLENE GLYCOI SODIUM STARCH GLY TARTARIC ACID (UNII AMMONIA (UNII: 51380 POTASSIUM HYDROX	/Active Moie Ing NII: YF1K15M17Y nts)7B710) L (UNII: 6DC9Q: YCOLATE TYP I: W48881119H) Q19F1X) KIDE (UNII: WZH	ORAL ty gredient Name (TEMOZOLOMIDE - UN Ingredient Nar EAPOTATO (UNII: 5856 3C48M4T)	II:YF1K15M17Y) ne	Bas	sis of St	rength IDE	Strength 20 mg
Route of Administrat Active Ingredient TEMOZOLOMIDE (UN Inactive Ingredien SHELLAC (UNII: 46 N10 PROPYLENE GLYCOI SODIUM STARCH GLY TARTARIC ACID (UNII AMMONIA (UNII: 51380 PO TASSIUM HYDROX FERRIC O XIDE YELLO	/Active Moie Ing NII: YF1K15M17Y nts 07B71O) L (UNII: 6 DC9 Q : YCOLATE TYP I: W48881119H) Q 19F1X) KIDE (UNII: WZH O W (UNII: EX43)	ORAL ty gredient Name (TEMOZOLOMIDE - UN) Ingredient Nam Angredient Nam	II:YF1K15M17Y) ne	Bas	sis of St	rength IDE	Strength 20 mg
Route of Administrat Active Ingredient TEMOZOLOMIDE (UN Inactive Ingredien SHELLAC (UNII: 46 N10 PROPYLENE GLYCOI SODIUM STARCH GLY TARTARIC ACID (UNII AMMONIA (UNII: 51380 POTASSIUM HYDROX FERRIC OXIDE YELLO FERROSOFERRIC OX	 /Active Moie Ing NII: YF1K15M17Y NII: YF1K15M17Y NII: YF1K15M17Y NII: YF1K15M17Y NII: YF1K15M17Y NII: YF1K15M17Y NII: COLATE TYP VA8881119H) Q19F1X) XIDE (UNII: WZH XIDE (UNII: XM01 	ORAL ty gredient Name (TEMOZOLOMIDE - UN: Ingredient Nam EAPOTATO (UNII: 5850 3C48M4T) 3O2MRT) M87F357)	II:YF1K15M17Y) ne	Bas	sis of St	rength IDE	Strength 20 mg
Route of Administrat Active Ingredient TEMOZOLOMIDE (UN Inactive Ingredien SHELLAC (UNII: 46N10 PROPYLENE GLYCOI SODIUM STARCH GLY TARTARIC ACID (UNII AMMONIA (UNII: 51380 POTASSIUM HYDROX FERRIC OXIDE YELLO FERROSOFERRIC OX	/Active Moie Ing NII: YF1K15M17Y nts 07B710) L (UNII: 6 DC9 Q : YCOLATE TYP I: W48881119H) Q 19F1X) KIDE (UNII: WZH O W (UNII: EX438 CIDE (UNII: XM01 UNII: 15FIX9 V2J	ORAL	II:YF1K15M17Y) ne	Bas	sis of St	rength IDE	Strength 20 mg
Route of Administrat Active Ingredient TEMOZOLOMIDE (UN Inactive Ingredien SHELLAC (UNII: 46 N10 PROPYLENE GLYCOI SODIUM STARCH GLY TARTARIC ACID (UNII AMMONIA (UNII: 51380 POTASSIUM HYDROX FERRIC OXIDE YELLO FERRIC OXIDE YELLO FERROSOFERRIC OX TITANIUM DIOXIDE (U	/Active Moie Ing NII: YF1K15M17Y nts)7B71O) L (UNII: 6 DC9 Q YCOLATE TYP I: W48881119H) Q 19F1X) KIDE (UNII: WZH O W (UNII: EX433 CIDE (UNII: XM01 UNII: 15FIX9 V2J SE (UNII: 3S Y5L	ORAL ty gredient Name (TEMOZOLOMIDE - UN) Ingredient Nam EAPOTATO (UNII: 5856 3C48 M4T) 3O2MRT) M87F357) P) H9PMK)	II:YF1K15M17Y) ne	Bas	sis of St	rength IDE	Strength 20 mg
Route of Administrat Active Ingredient TEMOZOLOMIDE (UN Inactive Ingredien SHELLAC (UNII: 46 N10 PROPYLENE GLYCOI SODIUM STARCH GLY TARTARIC ACID (UNII AMMONIA (UNII: 51380 POTASSIUM HYDROX FERRIC OXIDE YELLO FERROSOFERRIC OX TITANIUM DIOXIDE (UN ANHYDROUS LACTOS SILICON DIOXIDE (UN	/Active Moie Ing NII: YF1K15M17Y nts)7B710) L (UNII: 6DC9Q: YCOLATE TYP I: W48881119H) Q19F1X) KIDE (UNII: WZH OW (UNII: EX438 SIDE (UNII: XM01 UNII: 15F1X9V2J SE (UNII: 3SY5L NII: ETJ7Z6XBU	ORAL ty gredient Name (TEMOZOLOMIDE - UN) Ingredient Nam EAPOTATO (UNII: 5856 3C48 M4T) 3O2MRT) M87F357) P) H9PMK)	II:YF1K15M17Y) ne	Bas	sis of St	rength IDE	Strength 20 mg
Route of Administrat Active Ingredient TEMOZOLOMIDE (UN Inactive Ingredien SHELLAC (UNII: 46 N10 PROPYLENE GLYCOI SODIUM STARCH GLY TARTARIC ACID (UNII AMMONIA (UNII: 51380 POTASSIUM HYDROX FERRIC OXIDE YELLO FERRIC OXIDE YELLO FERROSOFERRIC OX TITANIUM DIOXIDE (U	/Active Moie Ing NII: YF1K15M17Y nts)7B710) L (UNII: 6DC9Q: YCOLATE TYP I: W48881119H) Q19F1X) KIDE (UNII: WZH OW (UNII: EX438 SIDE (UNII: XM01 UNII: 15F1X9V2J SE (UNII: 3SY5L NII: ETJ7Z6XBU	ORAL ty gredient Name (TEMOZOLOMIDE - UN) Ingredient Nam EAPOTATO (UNII: 5856 3C48 M4T) 3O2MRT) M87F357) P) H9PMK)	II:YF1K15M17Y) ne	Bas	sis of St	rength IDE	Strength 20 mg
Route of Administrat Active Ingredient TEMOZOLOMIDE (UN Inactive Ingredien SHELLAC (UNII: 46 N10 PROPYLENE GLYCOI SODIUM STARCH GLY TARTARIC ACID (UNII AMMONIA (UNII: 51380 POTASSIUM HYDROX FERRIC OXIDE YELLO FERROSOFERRIC OX TITANIUM DIOXIDE (UN ANHYDROUS LACTOS SILICON DIOXIDE (UN WATER (UNII: 059QF0) GELATIN (UNII: 2G860	<pre>/Active Moie Ing NII: YF1K15M17Y nts)7B71O) L (UNII: 6DC9Q: YCOLATE TYP L W48881119H) Q19F1X) CIDE (UNII: WZH O W (UNII: EX438 CIDE (UNII: XM01 UNII: 15FIX9 V2J: SE (UNII: 3S Y5L NII: ETJ7Z6 XBU KO0R) QN327L)</pre>	ORAL ty gredient Name (TEMOZOLOMIDE - UN) Ingredient Nam EAPOTATO (UNII: 5856 3C48 M4T) 3O2MRT) M87F357) P) H9PMK)	II:YF1K15M17Y) ne	Bas	sis of St	rength IDE	Strength 20 mg
Route of Administrat Active Ingredient TEMOZOLOMIDE (UN Inactive Ingredien SHELLAC (UNII: 46 N10 PROPYLENE GLYCOI SODIUM STARCH GLY TARTARIC ACID (UNII AMMONIA (UNII: 5138 (POTASSIUM HYDROX FERRIC OXIDE YELLO FERROSOFERRIC OX TITANIUM DIOXIDE (UN ANHYDRO US LACTOS SILICON DIOXIDE (UN	<pre>/Active Moie Ing NII: YF1K15M17Y nts)7B71O) L (UNII: 6DC9Q: YCOLATE TYP L W48881119H) Q19F1X) CIDE (UNII: WZH O W (UNII: EX438 CIDE (UNII: XM01 UNII: 15FIX9 V2J: SE (UNII: 3S Y5L NII: ETJ7Z6 XBU KO0R) QN327L)</pre>	ORAL ty gredient Name (TEMOZOLOMIDE - UN) Ingredient Nam EAPOTATO (UNII: 5856 3C48 M4T) 3O2MRT) M87F357) P) H9PMK)	II:YF1K15M17Y) ne	Bas	sis of St	rength IDE	Strength 20 mg

	oduct Charact	teristics				
Co	lor	yellow, wł	nite	Score		no score
Sha	ape	CAPSULE		Size		18 mm
Fla	vor			Imprint Code	<u>!</u>	20
Co	ntains					
Pa	ckaging					
#	Item Code		Package Description		Marketing Start Date	Marketing End Date
	NDC:59923-705-)5	1 in 1 CARTON			0 1/25/20 19	
1		5 in 1 BOTTLE, Product	GLASS; Type 0: Not a Cor	nbinatio n		
M	arketing In	formation				
	0					
Ma	arketing Catego		on Number or Monogra	ph Citation	Marketing Start Date	Marketing End Date
Ma AN	arketing Catego			ph Citation	Marketing Start Date 0 1/25/20 19	Marketing End Date
	arketing Catego	ry Applicatio		ph Citation	-	Marketing End Date
AN	arketing Catego	ry Applicatio		ph Citation	-	Marketing End Date
AN TE	arketing Catego DA	ry Application		ph Citation	-	Marketing End Date
AN TE tem	arketing Catego DA EMOZOLON	ry Applicatio ANDA204639 MIDE sule		ph Citation	-	Marketing End Date
AN TE tem	arketing Categor DA EMOZOLON 1020lomide caps	ry Applicatio ANDA204639 MIDE sule			-	Marketing End Date

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

Inactive Ingredients	
Ingredient Name	Strength
POTASSIUM HYDRO XIDE (UNII: WZH3C48M4T)	
FERRIC OXIDE RED (UNII: 1K09F3G675)	
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	
TARTARIC ACID (UNII: W4888I119H)	
SHELLAC (UNII: 46N107B710)	
GELATIN (UNII: 2G86QN327L)	
TITANIUM DIO XIDE (UNII: 15FIX9 V2JP)	
FERROSOFERRIC OXIDE (UNII: XM0 M8 7F357)	
SILICON DIO XIDE (UNII: ETJ7Z6 XBU4)	
STEARIC ACID (UNII: 4ELV7Z65AP)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	

W	ATER (UNII: 059QF	0KO0R)				
A	MMO NIA (UNII: 5138	3Q 19 F 12	ζ)			
P	roduct Charact	eristic	S			
C	olor		pink, white	Score		no score
SI	hape		CAPSULE	Size		19 mm
Fl	avor			Imprint Code		100
C	ontains					
D						
•	ackaging					
∎ #	ackaging Item Code		Package Description	on	Marketing Start Date	Marketing End Date
	Item Code	1 in 1 C.		on	_	Marketing End Date
#	Item Code NDC:59923-708- 14		ARTON 30TTLE, GLASS; Type 0: Not a		Date	Marketing End Date
#	Item Code NDC:59923-708- 14	14 in 1 H	ARTON 30TTLE, GLASS; Type 0: Not a		Date	Marketing End Date
#	Item Code NDC:59923-708- 14	14 in 1 H	ARTON 30TTLE, GLASS; Type 0: Not a		Date	Marketing End Date
# 1 1	Item Code NDC:59923-708- 14	14 in 1 H Product	ARTON 30TTLE, GLASS; Type 0: Not a		Date	Marketing End Date
# 1 1	Item Code NDC:59923-708- 14	14 in 1 F Product	ARTON 30TTLE, GLASS; Type 0: Not a	Combination	Date	Marketing End Date
# 1 1 N N	Item Code NDC:59923-708- 14 Iarketing Inf	14 in 1 E Product Orma y Aj	ARTON BOTTLE, GLASS; Type 0: Not a	Combination raph Citation	Date 0 1/25/20 19	
# 1 1 N N	Item Code NDC:59923-708- 14 Iarketing Inf	14 in 1 E Product Orma y Aj	ARTON 30TTLE, GLASS; Type 0: Not a ation pplication Number or Monog	Combination raph Citation	Date Date	

TEMOZOLOMIDE					
temozolomide capsule					
Product Information					
Product Type	HUMAN PRESCRIPTION DRUG	Item Code	(Source)	NDC:5	9923-710
Route of Administration	ORAL				
Active Ingredient/Active Mo	•				
In	gredient Name		Basis of Stre	ngth	Strength
TEMOZOLOMIDE (UNII: YF1K15M17Y) (TEMOZOLOMIDE - UNII:YF1K15M17Y)			TEMOZOLOMIDE		140 mg
Inactive Ingredients					
Ingredient Name				Strength	
STEARIC ACID (UNII: 4ELV7Z65AP)					
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)					
GELATIN (UNII: 2G86QN327L)					
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)					
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)					
TARTARIC ACID (UNII: W48881119H)					
SHELLAC (UNII: 46 N107B710)					
AMMO NIA (UNII: 5138Q19F1X)					

Т	ITANIUM DIO XIDE	E (UNII: 15FIX9V2JP)				
S	ILICON DIO XIDE (UNII: ETJ7Z6 XBU4)				
M	ATER (UNII: 059Q	F0KO0R)				
P	O TASSIUM HYDRO	DXIDE (UNII: WZH3C48 M4T)				
F	ERROSOFERRIC C	XIDE (UNII: XM0 M8 7F357)				
S	O DIUM STARCH G	LYCOLATE TYPE A POTAT	Г О (UNII: 5856J3G2A2)			
P	Product Charac	teristics				
С	olor	blue, white	Score		no score	
s	hape	CAPSULE Size		22mm		
F	lavor		Imprint Code	Imprint Code		
С	ontains					
P	ackaging					
#	Item Code	Package I	Description	Marketing Start Date	Marketing End Date	
1	NDC:59923-710- 14	1 in 1 CARTON		0 1/25/20 19		
1		14 in 1 BOTTLE, GLASS; Typ Product	BOTTLE, GLASS; Type 0: Not a Combination t			

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date		
ANDA	ANDA204639	0 1/25/20 19			

TEMOZOLOMIDE					
emozolomide capsule					
Product Information					
Product Type	HUMAN PRESCRIPTION DRUG	Item Code ((Source)	NDC:5	9923-709
Route of Administration	ORAL				
Active Ingredient/Active Mo	iety				
In	gredient Name		Basis of Stre	ength	Strengtl
TEMOZOLOMIDE (UNII: YF1K15M17Y) (TEMOZOLOMIDE - UNII:YF1K15M17Y)			TEMOZOLOMIE	ЭE	140 mg
Inactive Ingredients					
	Ingredient Name				Strength
PROPYLENE GLYCOL (UNII: 6DC9C	2167V3)				
WATER (UNII: 059QF0KO0R)					

POTASSIUM HYDROXIDE (UNII: WZH3C48M4T)	
GELATIN (UNII: 2G86QN327L)	
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	
FERROSOFERRIC OXIDE (UNII: XM0 M87F357)	
TITANIUM DIO XIDE (UNII: 15FIX9 V2JP)	
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)	
SILICON DIO XIDE (UNII: ETJ7Z6 XBU4)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
TARTARIC ACID (UNII: W48881119H)	
STEARIC ACID (UNII: 4ELV7Z65AP)	
SHELLAC (UNII: 46N107B710)	

Product Characteristics				
Color	white, blue	Score	no score	
Shape	CAPSULE	Size	22mm	
Flavor		Imprint Code	140	
Contains				

Packaging

# Item Code	Package Description	Marketing Start Date	Marketing End Date
1 NDC:59923-709- 05	1 in 1 CARTON	0 1/25/20 19	
1	5 in 1 BOTTLE, GLASS; Type 0: Not a Combination Product		
Marketing In	formation		
Marketing In Marketing Catego		Marketing Start Date	Marketing End Date

Labeler - Areva Pharmaceuticals (833189835)

Establis	shment		
Name	Address		Business Operations
NerPharMa SRL		338839192	manufacture(59923-703, 59923-704, 59923-705, 59923-706, 59923-707, 59923-708, 59923-709, 59923-710, 59923-711, 59923-712, 59923-713)

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Areva Pharmaceuticals