# TEMOZOLOMIDE - temozolomide capsule
# Camber Pharmaceuticals, Inc.

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**HIGHLIGHTS OF PRESCRIBING INFORMATION**
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**These highlights do not include all the information needed to use TEMOZOLOMIDE CAPSULES safely and effectively. See full prescribing information for TEMOZOLOMIDE CAPSULES.**
**TEMOZOLOMIDE capsules, for oral use**
**Initial U.S. Approval: 1999**

## RECENT MAJOR CHANGES

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

## INDICATIONS AND USAGE

Temozolomide capsule is an alkylating drug indicated for the treatment of adults with:
• Newly diagnosed glioblastoma concomitantly with radiotherapy and then as maintenance treatment. ( 1.1)
• Anaplastic astrocytoma. ( 1.2)
  o Adjuvant treatment of adults with newly diagnosed anaplastic astrocytoma. ( 1.2)
  o Treatment of adults with refractory anaplastic astrocytoma. ( 1.2)

## DOSAGE AND ADMINISTRATION

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

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

## CONTRAINDICATIONS

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

## WARNINGS AND PRECAUTIONS

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

partners of reproductive potential to use condoms. ( 5.5, 8.1, 8.3)
• Exposure to Opened Capsules:Temozolomide capsules should not be opened, chewed, or dissolved but should be swallowed whole with a glass of water. ( 5.6)

**ADVERSE REACTIONS**

• The most common adverse reactions (≥20%) are: alopecia, fatigue, nausea, vomiting, headache, constipation, anorexia, and convulsions. ( 6.1)
• The most common Grade 3 to 4 hematologic laboratory abnormalities (≥10%) in patients with anaplastic astrocytoma are: decreased lymphocytes, decreased platelets, decreased neutrophils, and decreased leukocytes. ( 6.1)
**To report SUSPECTED ADVERSE REACTIONS, contact Hetero Labs Limited at 1-866-495-1995 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.**

**USE IN SPECIFIC POPULATIONS**

• Lactation: Advise not to breastfeed. ( 8.2)
**See 17 for PATIENT COUNSELING INFORMATION.**

**Revised: 10/2024**

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**FULL PRESCRIBING INFORMATION: CONTENTS***

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

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## FULL PRESCRIBING INFORMATION

## 1 INDICATIONS AND USAGE

### 1.1 Newly Diagnosed Glioblastoma

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

### 1.2 Anaplastic Astrocytoma

Temozolomidecapsules are indicated for the:
•adjuvant treatment of adults with newly diagnosed anaplastic astrocytoma;
•treatmentof adults with refractory anaplastic astrocytoma.

## 2 DOSAGE AND ADMINISTRATION

### 2.1 Monitoring to Inform Dosage and Administration

Prior to dosing, withhold temozolomide capsules until patients have an absolute neutrophil count (ANC) of 1.5 x $10^9$/L or greater and a platelet count of 100 x $10^9$/L or greater.
For concomitant radiotherapy, obtain a complete blood count prior to initiation of treatment and weekly during treatment.
For the 28-day treatment cycles, obtain a complete blood count prior to treatment on Day 1 and on Day 22 of each cycle. Perform complete blood counts weekly until recovery if the ANC falls below 1.5 x $10^9$/L and the platelet count falls below 100 x 10

$^{9}$/L.
For concomitant use with focal radiotherapy, obtain a complete blood count weekly and as clinically indicated.

### 2.2 Recommended Dosage and Dosage Modifications for Newly Diagnosed Glioblastoma

Administertemozolomide capsules either orally or intravenously once daily for 42 to 49 consecutive days during the concomitant use phase withfocalradiotherapy, and then once daily on Days 1 to 5 of each 28-day cycle for 6 cycles during the maintenance use phase.
Provide *Pneumocystis*pneumonia (PCP) prophylaxis during the concomitant use phase and continue in patients who develop lymphopenia untilresolutionto Grade 1 or less *[see Warnings and Precautions (5.3)]* .
ConcomitantUse Phase:
The recommended dosage of temozolomide capsules is 75 mg/m $^{2}$either orally or intravenously once daily for 42 to 49 days in combination with focalradiotherapy. Focal radiotherapy includes the tumor bed or resection site with a 2 to 3 cm margin. Otheradministration schedules have been used.
Obtaina complete blood count weekly. The recommended dosage modifications due to adverse reactions during concomitant use phase areprovided in **Table 1**.
**TABLE 1:Dosage Modifications Due to Adverse Reactions During Concomitant Use Phase**

| **AdverseReaction** | **Interruption** | **Discontinuation** |
|---|---|---|
| **AbsoluteNeutrophil Count** | Withhold temozolomide capsules if ANC is greater than or equal to 0.5 x 10 $^{9}$/L and less than 1.5 x 10 $^{9}$/L.<br>Resume temozolomide capsules at the same dose when ANC is greater than or equal to 1.5 x 10 $^{9}$/L. | Discontinue temozolomide capsules if ANC is less than 0.5 x 10 $^{9}$/L. |
| **PlateletCount** | Withhold temozolomide capsules if platelet count is greater than or equal to 10 x 1 0 $^{9}$/L and less than 100 x 10 $^{9}$/L.<br>Resume temozolomide capsules at the same dose when platelet count is greater than or equal to 100 x 10 $^{9}$/L. | Discontinue temozolomide capsules if platelet count is less than 10 x 10 $^{9}$/L. |
| **Non-hematological Adverse Reaction (except for alopecia, nausea, vomiting)** | Withhold temozolomide capsules if Grade 2 adverse reaction occurs.<br>Resume temozolomide capsules at the same dose | Discontinue temozolomide capsules if Grade 3 or 4 adverse reaction occurs. |

| | | |
|---|---|---|
| | when resolution to Grade 1 or less. | |

Single Agent Maintenance Use Phase:
Beginning 4 weeks after concomitant use phase completion, administer temozolomide capsules either orally or intravenously once daily on Days 1 to5of each 28-day cycle for 6 cycles. The recommended dosage of temozolomide capsules in the maintenance use phase is:

- Cycle1: 150 mg/m $^2$per day on days 1 to 5.
- Cycles2 to 6: May increase to 200 mg/m $^2$per day on days 1 to 5 before starting Cycle 2 if no dosage interruptions or discontinuations arerequired (Table 1). If the dose is not escalated at the onset of Cycle 2, **do not**increase the dose for Cycles 3 to 6.

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

Therecommended dosage modifications due to adverse reactions during the maintenance use phase are provided in **Table 2**.
If temozolomide capsule is withheld, reduce the dose for the next cycle by 50 mg/m $^2$per day. Permanently discontinue temozolomide capsules in patients who are unable to tolerate a dose of 100 mg/m $^2$per day.

**TABLE2: Dosage Modifications Due to Adverse Reactions During Maintenance and Adjuvant Treatment**

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

| | | |
|---|---|---|
| | | dose of 100 mg/m $^2$per day. |

## 2.3 Recommended Dosage and Dosage Modifications for Anaplastic Astrocytoma

Adjuvant Treatmentof Newly Diagnosed Anaplastic Astrocytoma
Beginning 4 weeks after the end of radiotherapy, administer temozolomide capsules orally in a single dose on days 1 to 5 of a 28-day cycle for 12 cycles. The recommended dosage of temozolomide capsules is: • Cycle 1: 150 mg/m $^2$per day on days 1 to 5.
• Cycles 2 to 12: 200 mg/m $^2$per day on days 1 to 5 if patient experienced no or minimal toxicity in Cycle 1. If the dose was not escalated at the onset of Cycle 2, **do not**increase the dose during Cycles 3 to 6.
The recommended complete blood count testing and dosage modifications due to adverse reactions during adjuvant treatment are provided above and in Table 2 *[see Dosage and Administration (2.2)]* .
RefractoryAnaplastic Astrocytoma
The recommended initial dosage of temozolomide capsules is 150 mg/m $^2$once daily on Days 1 to 5 of each 28-day cycle. Increase the temozolomide capsules dose to 200 mg/m $^2$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 x 10 $^9$/L, and
• Platelet count is greater than or equal to 100 x 10 $^9$/L.
Continue temozolomide capsules until disease progression or unacceptable toxicity. Obtain a complete blood count on Day 22 and then weekly until the ANC is above 1.5 x 10 $^9$/L and the platelet count is above 100 x 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 capsules dose for the next cycle by 50 mg/m $^2$per day. Permanently discontinue temozolomide capsules in patients who are unable to tolerate a dose of 100 mg/m $^2$per day.

## 2.4 Preparation and Administration

Temozolomidecapsules is a hazardous drug. Follow applicable special handling and disposal procedures. [1]
Take temozolomide capsules at the same time each day. Administer temozolomide capsules consistently with respect to food (fasting vs. nonfasting) *[see Clinical Pharmacology (12.3)]* . To reduce nausea and vomiting, take temozolomide capsules on an empty stomach or at bedtime and consider antiemetic therapy prior to and following temozolomide capsules administration.
Swallow temozolomide capsules whole with water. Advise patients not to open, chew, or dissolve the contents of the capsules *[see Warnings and Precautions (5.6)]* .
If capsules are accidentally opened or damaged, take precautions to avoid inhalation or contact with the skin or mucous membranes. In case of powder contact, wash the affected area with water immediately.

## 3 DOSAGE FORMS AND STRENGTHS

Temozolomide capsules, USP are available in 5 mg, 20 mg, 100 mg, 140 mg, 180 mg, and 250 mg strengths. The capsules contain a white capsule body with a color cap, and the colors vary based on the dosage strength.
5 mg: Opaque green cap and opaque white body, hard gelatin capsules imprinted with '13' on cap and 'H' on body, filled with off-white to pink or tan color granular powder.
20 mg: Opaque yellow cap and opaque white body, hard gelatin capsules imprinted with '14' on cap and 'H' on body, filled with off-white to pink or tan color granular powder.
100 mg: Opaque pink cap and opaque white body, hard gelatin capsules imprinted with '15' on cap and 'H' on body, filled with off-white to pink or tan color granular powder.
140 mg: Opaque blue cap and opaque white body, hard gelatin capsules imprinted with '16' on cap and 'H' on body, filled with off-white to pink or tan color granular powder.
180 mg: Opaque orange cap and opaque white body, hard gelatin capsules imprinted with '17' on cap and 'H' on body, filled with off-white to pink or tan color granular powder.
250 mg: Opaque white cap and opaque white body, hard gelatin capsules imprinted with '18' on cap and 'H' on body, filled with off-white to pink or tan color granular powder.

## 4 CONTRAINDICATIONS

Temozolomideis contraindicated in patients with a history of serious hypersensitivity reactions to:
- temozolomideor any other ingredients in temozolomide capsules; and
- dacarbazine, since both temozolomide and dacarbazine 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)]* .
In MK-7365-006, myelosuppression usually occurred during the first few cycles of therapy and was generally not cumulative. The median nadirs occurred at 26 days for platelets (range: 21 to 40 days) and 28 days for neutrophils (range: 1 to 44 days). Approximately 10% of patients required hospitalization, blood transfusion, or discontinuation of therapy due to myelosuppression. Geriatric patients and women have been shown in clinical trials to have a higher risk of developing myelosuppression.
Obtain a complete blood count and monitor ANC and platelet counts before initiation of treatment and as clinically indicated during treatment. When temozolomide is used in combination with radiotherapy, obtain a complete blood count prior to initiation of treatment, weekly during treatment, and as clinically indicated *[see Dosage and Administration (2.1, 2.2, 2.3)]* .
For severe myelosuppression, withhold temozolomide and then resume at same or reduced dose, or permanently discontinue, based on occurrence *[see Dosage and Administration (2.1, 2.2, 2.3)]* .

### 5.2 Hepatotoxicity

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

### 5.3 *Pneumocystis* Pneumonia

*Pneumocystis* pneumonia (PCP) has been reported in patients receiving temozolomide. The risk of PCP is increased in patients receiving steroids or with longer treatment regimens of temozolomide.
For patients with newly diagnosed glioblastoma, provide PCP prophylaxis for all patients during the concomitant phase. Continue PCP prophylaxis in patients who experience lymphopenia, until resolution to Grade 1 or less *[see Dosage and Administration (2.1)]* . Monitor all patients receiving temozolomide for the development of lymphopenia and PCP.

### 5.4 Secondary Malignancies

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

### 5.5 Embryo-Fetal Toxicity

Based on findings from animal studies and its mechanism of action, temozolomide can cause fetal harm when administered to a pregnant woman. Adverse developmental outcomes have been reported in both pregnant patients and pregnant partners of male patients. Oral administration of temozolomide to rats and rabbits during the period of organogenesis resulted in embryolethality and polymalformations at doses less than the maximum human dose based on body surface area.
Advise pregnant women and females of reproductive potential of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment with temozolomide and for 6 months after the last dose. Because of potential risk of genotoxic effects on sperm, advise male patients with female partners of reproductive potential to use condoms during treatment with temozolomide and for 3 months after the last dose. Advise male patients not to donate semen during treatment with temozolomide and for 3 months after the last dose *[see Use in Specific Populations (8.1, 8.3)]* .

### 5.6 Exposure to Opened Capsules

Advisepatients not to open, chew or dissolve the contents of the temozolomide capsules. Swallow capsules whole with a glass of water. If a capsule becomes damaged, avoid contact of the powder contents with skin or mucous membranes. In case of

powder contact, wash affected area with water immediately *[see Dosage and Administration (2.4)]* . If temozolomide capsules must be opened or the contents must be dissolved, this should be done by a professional trained in safe handling of hazardous drugs using appropriate equipment and safety procedures.

## 6 ADVERSE REACTIONS

The following clinically significant adverse reactions are described elsewhere in the labeling:
- Myelosuppression *[see Warnings and Precautions (5.1)]*
- Hepatotoxicity *[see Warnings and Precautions (5.2)]*
- *Pneumocystis*Pneumonia *[see Warnings and Precautions (5.3)]*
- Secondary Malignancies *[see Warnings and Precautions (5.4)]*

### 6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.
Newly Diagnosed Glioblastoma
The safety of temozolomide was evaluated in study MK-7365-051 *[see Clinical Studies (14.1)]* .
Severe or life-threatening adverse reactions occurred in 49% of patients treated with temozolomide; the most common were fatigue (13%), convulsions (6%), headache (5%), and thrombocytopenia (5%).
The most common adverse reactions (≥20%) in patients treated with temozolomide were alopecia, fatigue, nausea, anorexia, headache, constipation, and vomiting.
**Table 3**summarizes the adverse reactions in MK-7365-051.
**TABLE 3: Adverse Reactions (≥10%) in Patients with Newly Diagnosed Glioblastoma**

| **Adverse Reactions** | **Concomitant Use Phase** | | | | **Maintenance Use Phase** | |
|---|---|---|---|---|---|---|
| | **Radiation Therapy andTemozolomide N=288*** | | **Radiation Therapy Alone N=285** | | **Temozolomide N=224** | |
| | **All Grades (%)** | **Grade ≥3 (%)** | **All Grades (%)** | **Grades ≥3 (%)** | **All Grades (%)** | **Grade ≥3 (%)** |
| **Skin and Subcutaneous Tissue** | | | | | | |
| Alopecia | 69 | 0 | 63 | 0 | 55 | 0 |
| Rash | 19 | 1 | 15 | 0 | 13 | 1 |
| **General** | | | | | | |
| Fatigue | 54 | 7 | 49 | 5 | 61 | 9 |
| Anorexia | 19 | 1 | 9 | <1 | 27 | 1 |
| Headache | 19 | 2 | 17 | 4 | 23 | 4 |
| **Gastrointestinal System** | | | | | | |
| Nausea | 36 | 1 | 16 | <1 | 49 | 1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Vomiting | 20 | <1 | 6 | <1 | 29 | 2 |
| Constipation | 18 | 1 | 6 | 0 | 22 | 0 |
| Diarrhea | 6 | 0 | 3 | 0 | 10 | 1 |
| **Central and Peripheral Nervous System** | | | | | | |
| Convulsions | 6 | 3 | 7 | 3 | 11 | 3 |

*One patient who was randomized to radiation therapy-only arm received radiation therapy and temozolomide.
NOS = not otherwise specified.
**Note:**Grade 5 (fatal) adverse reactions are included in the Grade ≥3 column.
Clinically relevant adverse reactions in <10% of patients are presented below:

*Central & Peripheral Nervous System:*memory impairment, confusion
*Eye:*vision blurred
*Gastrointestinal System:*stomatitis, abdominal pain
*General:*weakness, dizziness
*Immune System:*allergic reaction
*Injury:*radiation injury not otherwise specified
*Musculoskeletal System:*arthralgia
*Platelet, Bleeding, & Clotting:*thrombocytopenia
*Psychiatric:*insomnia
*Respiratory System:*coughing, dyspnea
*Special Senses Other:*taste perversion
*Skin & Subcutaneous Tissue:*dry skin, pruritus, erythema
When laboratory abnormalities and adverse reactions were combined, Grade 3 or Grade 4 neutrophil abnormalities including neutropenic reactions were observed in 8% of patients, and Grade 3 or Grade 4 platelet abnormalities including thrombocytopenic reactions were observed in 14% of patients.
Newly Diagnosed Anaplastic Astrocytoma
The safety of temozolomide for the adjuvant treatment of adults with newly diagnosed anaplastic astrocytoma was derived from published literature *[see Clinical Studies (14.2)]* . The safety of temozolomide for the adjuvant treatment of patients with newly diagnosed anaplastic astrocytoma was consistent with the known safety profile of temozolomide.
Refractory Anaplastic Astrocytoma
The safety of temozolomide was evaluated in study MK-7365-006 *[see Clinical Studies (14.2)]* .
The most common adverse reactions (≥20%) were nausea, vomiting, headache, fatigue, constipation, and convulsions.
**Tables 4**and **5**summarize the adverse reactions and hematological laboratory abnormalities in MK-7365-006.

**TABLE 4: Adverse Reactions (≥10%) in Patients with Refractory Anaplastic Astrocytoma**

| **Adverse Reactions** | **Temozolomide N=158** | |
|---|---|---|
| | **All Reactions (%)** | **Grades 3 to 4 (%)** |

| | | |
|---|---|---|
| **Gastrointestinal System** | | |
| Nausea | 53 | 10 |
| Vomiting | 42 | 6 |
| Constipation | 33 | 1 |
| Diarrhea | 16 | 2 |
| **General** | | |
| Headache | 41 | 6 |
| Fatigue | 34 | 4 |
| Asthenia | 13 | 6 |
| Fever | 13 | 2 |
| **Central and Peripheral Nervous System** | | |
| Convulsions | 23 | 5 |
| Hemiparesis | 18 | 6 |
| Dizziness | 12 | 1 |
| Coordination abnormal | 11 | 1 |
| Amnesia | 10 | 4 |
| Insomnia | 10 | 0 |
| **Cardiovascular** | | |
| Edema peripheral | 11 | 1 |
| **Resistance Mechanism** | | |
| Infection viral | 11 | 0 |

Clinically relevant adverse reactions in <10% of patients are presented below:
*Central and Peripheral Nervous System:*paresthesia, somnolence, paresis, urinary incontinence, ataxia, dysphasia, convulsions local, gait abnormal, confusion
*Endocrine:*adrenal hypercorticism
*Gastrointestinal System:*abdominal pain, anorexia
*General:*back pain
*Metabolic:*weight increase
*Musculoskeletal System:*myalgia
*Psychiatric:*anxiety, depression
*Reproductive Disorders:*breast pain female
*Respiratory System:*upper respiratory tract infection, pharyngitis, sinusitis, coughing
*Skin & Appendages:*rash, pruritus
*Urinary System:*urinary tract infection, micturition increased frequency
*Vision:*diplopia, vision abnormal [*]
[*]This term includes blurred vision; visual deficit; vision changes; and vision troubles.

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

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

*Change from Grade 0 to 2 at baseline to Grade 3 or 4 during treatment.
†Denominator range= 142, 158

Hematological Toxicities for Advanced Gliomas

In clinical trial experience with 110 to 111 females and 169 to 174 males (depending on measurements), females experienced higher rates of Grade 4 neutropenia (ANC <0.5 x $10^9$/L) and thrombocytopenia (<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 10% (6/63) of patients >70 years experienced Grade 4 neutropenia or thrombocytopenia in the first cycle, respectively. For patients ≤70 years, 7% (62/871) and 6% (48/879) experienced Grade 4 neutropenia or thrombocytopenia in the first cycle, respectively. Pancytopenia, leukopenia, and anemia also occurred.

### 6.2 Postmarketing Experience

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

Dermatologic:Toxic epidermal necrolysis and Stevens-Johnson syndrome.

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

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

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

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

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

Endocrine:Diabetes insipidus.

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

Risk Summary

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

risk to a fetus.
In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.
Data
*Animal Data*
Five consecutive days of oral administration of temozolomide at doses of 75 and 150 mg/m $^2$(0.38 and 0.75 times the human dose of 200 mg/m $^2$) 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/m $^2$ dose (0.75 times the human dose of 200 mg/m $^2$) 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 1 week after the last dose.

## 8.3 Females and Males of Reproductive Potential

Temozolomide can cause fetal harm when administered to a pregnant woman *[see Use in Specific Populations (8.1)]* .
Pregnancy Testing
Verify pregnancy status in females of reproductive potential prior to initiating temozolomide *[see Use in Specific Populations (8.1)]* .
Contraception
*Females*
Advise females of reproductive potential to use effective contraception during treatment with temozolomide and for 6 months after the last dose.
*Males*
Because of the potential for embryofetal toxicity and genotoxic effects on sperm cells, advise male patients with pregnant partners or female partners of reproductive potential to use condoms during treatment with temozolomide and for 3 months after the last dose *[see Use in Specific Populations (8.1), Nonclinical Toxicology (13.1)]* .
Advise male patients not to donate semen during treatment with temozolomide and for 3 months after the last dose.
Infertility
Temozolomide may impair male fertility *[see Nonclinical Toxicology (13.1)]* . Limited data from male patients show changes in sperm parameters during treatment with temozolomide; however, no information is available on the duration or reversibility of these changes.

## 8.4 Pediatric Use

Safety and effectiveness of temozolomide have not been established in pediatric

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

### 8.5 Geriatric Use

In MK-7365-051, 15% of patients with newly diagnosed glioblastoma were 65 years and older. This study did not include sufficient numbers of patients aged 65 years and older to determine differences in effectiveness from younger patients. No overall differences in safety were observed between patients ≥65 years and younger patients.
The CATNON trial did not include sufficient numbers of patients aged 65 years and older to determine differences in safety or effectiveness when compared to younger patients.
In MK-7365-006, 4% of patients with refractory anaplastic astrocytoma were 70 years and older. This study did not include sufficient numbers of patients aged 70 years and older to determine differences in effectiveness from younger patients. Patients 70 years and older had a higher incidence of Grade 4 neutropenia (25%) and Grade 4 thrombocytopenia (20%) in the first cycle of therapy than patients less than 70 years of age *[see Warnings and Precautions (5.1), Adverse Reactions (6.1)]* .
In the entire safety database for which hematologic data exist (N=932), 7% (4/61) and 10% (6/63) of patients >70 years experienced Grade 4 neutropenia or thrombocytopenia in the first cycle, respectively. For patients ≤70 years, 7% (62/871) and 6% (48/879) experienced Grade 4 neutropenia or thrombocytopenia in the first cycle, respectively. Pancytopenia, leukopenia, and anemia also occurred.

### 8.6 Renal Impairment

No dosage adjustment is recommended for patients with creatinine clearance (CLcr) of 36 to 130 mL/min/m $^2$ *[see Clinical Pharmacology (12.3)]* . The recommended dose of temozolomide has not been established for patients with severe renal impairment (CLcr <36 mL/min/m $^2$) or for patients with end-stage renal disease on dialysis.

### 8.7 Hepatic Impairment

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

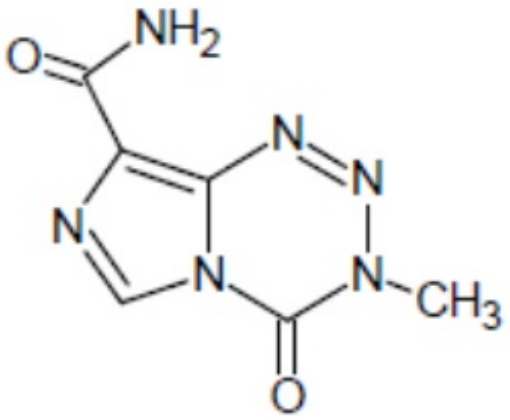
## 10 OVERDOSAGE

Dose-limiting toxicity was myelosuppression and was reported with any dose but is expected to be more severe at higher doses. An overdose of 2000 mg per day for 5

days was taken by one patient and the adverse reactions reported were pancytopenia, pyrexia, multi-organ failure, and death. There are reports of patients who have taken more than 5 days of treatment (up to 64 days), with adverse reactions reported including myelosuppression, which in some cases was severe and prolonged, and infections and resulted in death. In the event of an overdose, monitor complete blood count and provide supportive measures as necessary.

## 11 DESCRIPTION

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




The material is a white to light pink or light tan powder with a molecular formula of $C_6H_6N_6O_2$ and a molecular weight of 194.15. The molecule is stable at acidic pH (<5) and labile at pH >7; hence temozolomide capsules 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, USP for oral use contains either 5 mg, 20 mg, 100 mg, 140 mg, 180 mg, or 250 mg of temozolomide, USP.
The inactive ingredients are anhydrous lactose, colloidal silica, sodium starch glycolate, stearic acid, tartaric acid.
The body of the capsules is made of gelatin and is opaque white. The cap is also made of gelatin, and the colors vary based on the dosage strength. The capsule body and cap are imprinted with pharmaceutical branding ink, which contains black iron oxide, dehydrated alcohol, isopropyl alcohol, potassium hydroxide, propylene glycol, shellac, and strong ammonia solution.

*Temazolomide Capsules USP, 5 mg:*The opaque green cap contains FD&C Blue #2,

gelatin, iron oxide yellow, sodium lauryl sulfate, and titanium dioxide.

*Temazolomide Capsules USP, 20 mg:*The opaque yellow cap contains gelatin, iron oxide yellow, sodium lauryl sulfate, and titanium dioxide.
*Temazolomide Capsule USP, 100 mg:*The opaque pink cap contains gelatin, iron oxide red, sodium lauryl sulfate, and titanium dioxide.
*Temazolomide Capsules, USP, 140 mg:*The opaque blue cap contains FD&C Blue #2, gelatin, sodium lauryl sulfate, and titanium dioxide.
*Temazolomide Capsules USP, 180 mg:*The opaque orange cap contains gelatin, iron oxide red, sodium lauryl sulfate, and titanium dioxide.
*Temazolomide Capsules USP, 250 mg:*The opaque white cap contains gelatin, sodium lauryl sulfate, 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 DNA alkylation, mainly at the $O_6$and $N_7$positions of guanine, which causes DNA double strand breaks and results in programmed cell death.

### 12.2 Pharmacodynamics

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

### 12.3 Pharmacokinetics

Following a single oral dose of 150 mg/$m^2$, the mean $C_{max}$is 7.5 mcg/mL for temozolomide and 282 ng/mL for MTIC. The mean AUC is 23.4 mcg·hr/mL for temozolomide and 864 ng·hr/mL for MTIC.
Following a single 90-minute intravenous infusion of 150 mg/$m^2$, the mean $C_{max}$is 7.3 mcg/mL for temozolomide and 276 ng/mL for MTIC. The mean AUC is 24.6 mcg·hr/mL for temozolomide and 891 ng·hr/mL for MTIC.
Temozolomide exhibits linear kinetics over the therapeutic dosing range of 75 mg/$m^2$/day to 250 mg/$m^2$/day.
Absorption
The median $T_{max}$is 1 hour.
*Effect of Food*
The mean temozolomide $C_{max}$and AUC decreased by 32% and 9%, respectively, and median $T_{max}$increased by 2-fold (from 1 to 2.25 hours) when temozolomide capsules were administered after a modified high-fat breakfast (587 calories comprised of 1 fried egg, 2 strips of bacon, 2 slices of toast, 2 pats of butter, and 8 oz whole milk).

Distribution
Temozolomide has a mean (CV%) apparent volume of distribution of 0.4 L/kg (13%). The

mean percent bound of drug-related total radioactivity is 15%.

Elimination

Clearance of temozolomide is approximately 5.5 L/hr/m $^2$and the mean elimination half-life is 1.8 hours.

*Metabolism*

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

*Excretion*

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

Specific Populations

No clinically significant differences in the pharmacokinetics of temozolomide were observed based on age (range: 19 to 78 years), gender, smoking status (smoker vs. non-smoker), creatinine clearance (CLcr) of 36 to 130 mL/min/m $^2$, or mild to moderate hepatic impairment (Child Pugh class A and B). The pharmacokinetics of temozolomide has not been studied in patients with CLcr <36 mL/min/m $^2$, end-stage renal disease on dialysis, or severe hepatic impairment (Child-Pugh class C).

Drug Interaction Studies

*Clinical Studies and Model-Informed Approaches*

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

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

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Temozolomide is carcinogenic in rats at doses less than the maximum recommended human dose. Temozolomide induced mammary carcinomas in both males and females at doses 0.13 to 0.63 times the maximum human dose (25 to 125 mg/m $^2$) 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/m $^2$(0.25 and 0.63 times the human dose of 200 mg/m $^2$) in rats and dogs, respectively, and testicular atrophy in dogs at 125 mg/m $^2$.

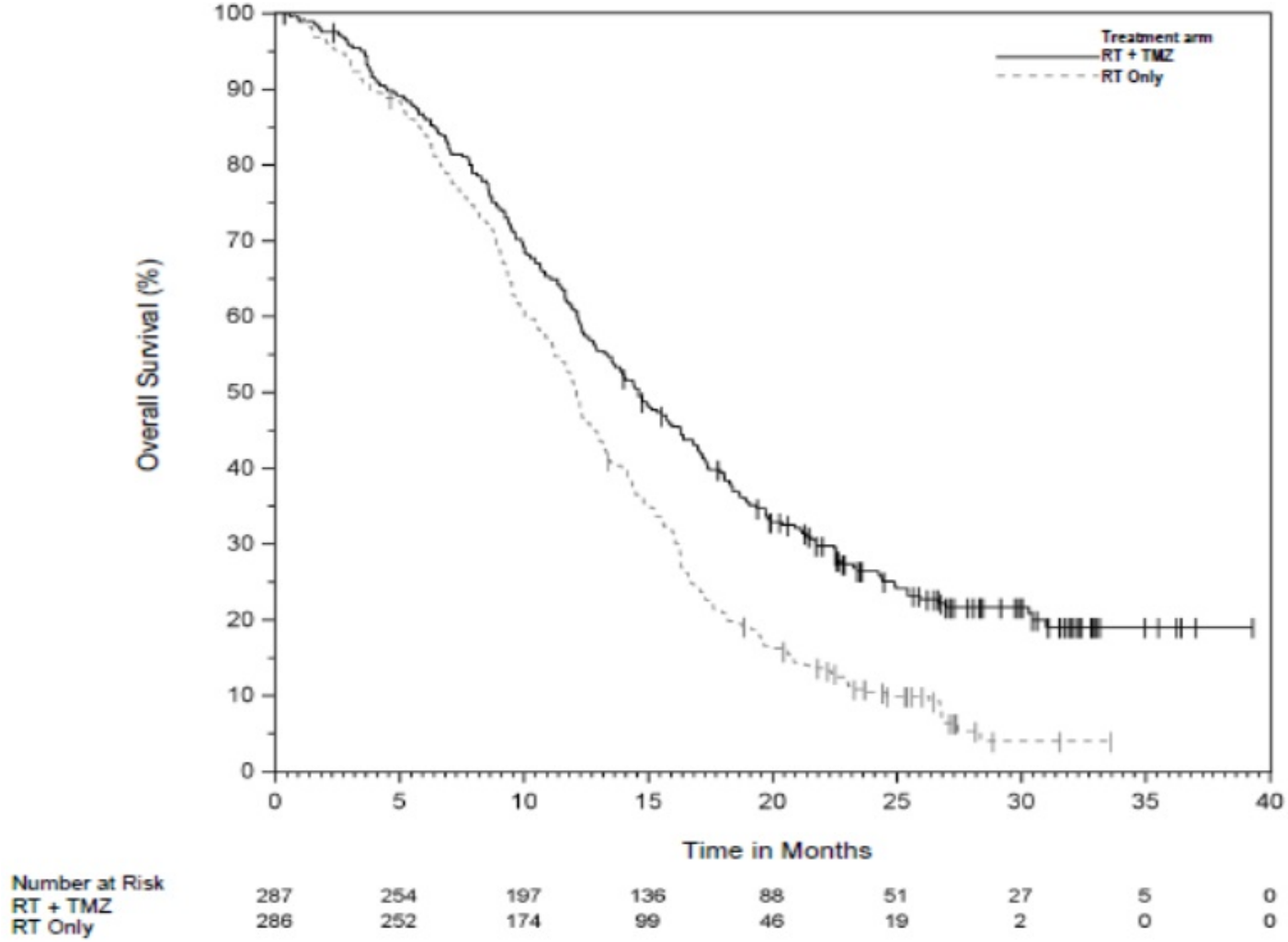
### 13.2 Animal Toxicology and/or Pharmacology

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/m $^2$(0.63 times the human dose of 200 mg/m $^2$). These changes were most commonly seen at doses where mortality was observed.

## 14 CLINICAL STUDIES

### 14.1 Newly Diagnosed Glioblastoma

The efficacy of temozolomide was evaluated in MK-7365-051 (NCT00006353), a randomized (1:1), multicenter, open-label trial. Eligible patients were required to have newly diagnosed glioblastoma. Patients were randomized to receive either radiation therapy alone or concomitant temozolomide 75 mg/m $^2$once daily starting the first day of radiation therapy and continuing until the last day of radiation therapy for 42 days (with a maximum of 49 days), followed by temozolomide 150 mg/m $^2$or 200 mg/m $^2$once daily on Days 1 to 5 of each 28-day cycle, starting 4 weeks after the end of radiation therapy and continuing for 6 cycles. In both arms, focal radiation therapy was delivered as 60 Gy/30 fractions and included radiation to the tumor bed or resection site with a 2- to 3-cm margin. PCP prophylaxis was required during the concomitant phase regardless of lymphocyte count and continued until recovery of lymphocyte count to Grade 1 or less. The major efficacy outcome measure was overall survival.
A total of 573 patients were randomized, 287 to temozolomide and radiation therapy and 286 to radiation therapy alone. At the time of disease progression, temozolomide was administered as salvage therapy in 161 patients of the 282 (57%) in the radiation therapy alone arm and 62 patients of the 277 (22%) in the temozolomide and radiation therapy arm.
The addition of concomitant and maintenance temozolomide to radiation therapy for the treatment of patients with newly diagnosed glioblastoma showed a statistically significant improvement in overall survival compared to radiotherapy alone ( **Figure 1**). The hazard ratio (HR) for overall survival was 0.63 (95% CI: 0.52, 0.75) with a log-rank $P<0.0001$ in favor of the temozolomide arm. The median overall survival was 14.6 months in the temozolomide arm and 12.1 months for radiation therapy alone arm.
**FIGURE 1: Kaplan-Meier Curves for Overall Survival (ITT Population) in Patients with Newly Diagnosed Glioblastoma in MK-7365-051**




## 14.2 Anaplastic Astrocytoma

Newly Diagnosed Anaplastic Astrocytoma

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

Refractory Anaplastic Astrocytoma

The efficacy of temozolomide was evaluated in Study MK-7365-006, a single-arm, multicenter trial. Eligible patients had anaplastic astrocytoma at first relapse and a baseline Karnofsky performance status (KPS) of 70 or greater. Patients had previously received radiation therapy and may also have previously received a nitrosourea with or without other chemotherapy. Fifty-four patients had disease progression on prior therapy with both a nitrosourea and procarbazine and their malignancy was considered refractory to chemotherapy (refractory anaplastic astrocytoma population). Temozolomide capsules were given on Days 1 to 5 of each 28-day cycle at a starting dose of 150 mg/m $^2$/day. If ANC was ≥1.5 x 10 $^9$/L and platelet count was ≥100 x 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 >80. Sixty-three percent of patients had surgery other than a biopsy at the time of initial diagnosis. Of those patients undergoing resection, 73% underwent a subtotal resection and 27% underwent a gross total resection. Eighteen percent of patients had surgery at the time of first relapse. The median time from initial diagnosis to first relapse was 13.8 months (range: 4.2 months to 6.3 years).
In the refractory anaplastic astrocytoma population, the overall response rate (CR+PR) was 22% (12 of 54 patients) and the complete response rate was 9% (5 of 54 patients). The median duration of all responses was 50 weeks (range: 16 to 114 weeks) and the median duration of complete responses was 64 weeks (range: 52 to 114 weeks). In this population, progression-free survival at 6 months was 45% (95% CI: 31%, 58%) and progression-free survival at 12 months was 29% (95% CI: 16%, 42%). Median progression-free survival was 4.4 months. Overall survival at 6 months was 74% (95% CI: 62%, 86%) and 12-month overall survival was 65% (95% CI: 52%, 78%). Median overall survival was 15.9 months.

## 15 REFERENCES

1. “OSHA Hazardous Drugs.” OSHA. http://www.osha.gov/hazardous-drugs

## 16 HOW SUPPLIED/STORAGE AND HANDLING

Temozolomide is a hazardous drug. Follow applicable special handling and disposal procedures. [1]
Temozolomide Capsules, USP
5 mg: Opaque green cap and opaque white body, hard gelatin capsules imprinted with ‘13’ on cap and ‘H’ on body, filled with off-white to pink or tan color granular powder.

| | |
|---|---|
| Bottles of 5 count | NDC 31722-411-31 |
| Bottles of 14 count | NDC 31722-411-14 |

20 mg: Opaque yellow cap and opaque white body, hard gelatin capsules imprinted with ‘14’ on cap and ‘H’ on body, filled with off-white to pink or tan color granular powder.

| | |
|---|---|
| Bottles of 5 count | NDC 31722-412-31 |
| Bottles of 14 count | NDC 31722-412-14 |

100 mg: Opaque pink cap and opaque white body, hard gelatin capsules imprinted with ‘15’ on cap and ‘H’ on body, filled with off-white to pink or tan color granular powder.

| | |
|---|---|
| Bottles of 5 count | NDC 31722-413-31 |
| Bottles of 14 count | NDC 31722-413-14 |

140 mg: Opaque blue cap and opaque white body, hard gelatin capsules imprinted with ‘16’ on cap and ‘H’ on body, filled with off-white to pink or tan color granular powder.

| | |
|---|---|
| Bottles of 5 count | NDC 31722-414-31 |
| Bottles of 14 count | NDC 31722-414-14 |

180 mg: Opaque orange cap and opaque white body, hard gelatin capsules imprinted with ‘17’ on cap and ‘H’ on body, filled with off-white to pink or tan color granular powder.

Bottles of 5 count NDC 31722-415-31
Bottles of 14 count NDC 31722-415-14

250 mg: Opaque, white cap and opaque white body, hard gelatin capsules imprinted with '18' on cap and 'H' on body, filled with off-white to pink or tan color granular powder.

Bottles of 5 count NDC 31722-416-31
Bottles of 14 count NDC 31722-416-14

Store temozolomide capsules, USP at 20°C to 25°C (68°F to 77°F); excursions are permitted between 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature].

## 17 PATIENT COUNSELING INFORMATION

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

Myelosuppression

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

Hepatotoxicity

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

*Pneumocystis*Pneumonia

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

Secondary Malignancies

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

Exposure to Opened Capsules

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

Embryo-Fetal Toxicity

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

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

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

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

*(13.1)]* .

Lactation

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

Infertility

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


Manufactured for:
Camber Pharmaceuticals, Inc.
Piscataway, NJ 08854

By: **HETERO ™**
Hetero Labs Limited, Unit V, Polepally, Jadcherla,

Mahabubnagar - 509 301, India.

Revised: 10/2024

**Patient Information**

| Temozolomide Capsules, USP<br>(tem″ oh zol′ oh mide) |
|---|
| **What are temozolomide capsules?**<br>Temozolomide capsules are a prescription medicine used to treat adults with certain brain cancer tumors.<br>It is not known if temozolomide capsules is safe and effective in children. |
| **Do not take temozolomide capsules if you:**<br>• have had an allergic reaction to temozolomide or any of the other ingredients in temozolomide capsules. See the end of this leaflet for a list of ingredients in temozolomide capsules. Symptoms of an allergic reaction with temozolomide capsules |

may include: a red itchy rash, or a severe allergic reaction, such as trouble breathing, swelling of the face, throat, or tongue, or severe skin reaction. If you are not sure, ask your healthcare provider.
• have had an allergic reaction to dacarbazine (DTIC), another cancer medicine.

**Before taking or receiving temozolomide capsules, tell your healthcare provider about all of your medical conditions, including if you:**
• have kidney problems
• have liver problems
• are pregnant or plan to become pregnant. **Temozolomide capsules can harm your unborn baby and cause birth defects.**
**Females who can become pregnant:**
o You should not become pregnant during treatment with temozolomide capsules.
o You should use an effective form of birth control (contraception) during treatment and for 6 months after your last dose of temozolomide capsules.
o Your healthcare provider should do a pregnancy test to make sure that you are not pregnant before you start taking temozolomide capsules.
o Tell your healthcare provider right away if you become pregnant or think you may be pregnant during treatment with temozolomide capsules.
**Males with a female partner who is pregnant or who can become pregnant:**
o Use a condom for birth control (contraception) during treatment and for 3 months after taking your last dose of temozolomide capsules.
o **Do not**donate semen during treatment and for 3 months after your last dose of temozolomide capsules.
• are breastfeeding or plan to breastfeed. It is not known if temozolomide passes into your breast milk. Do not breastfeed during treatment and for 1 week after your last dose of temozolomide capsules.
Tell your doctor about all the medicines you take, including prescription and non-prescription medicines, vitamins, and herbal supplements.
Know the medicines you take. Keep a list of them and show it to your healthcare provider and pharmacist when you get a new medicine.

**How should I take temozolomide capsules?**
• you may take temozolomide capsules by mouth as a capsule.
• If your healthcare provider prescribes temozolomide capsules for you, take the capsules exactly as prescribed.
There are 2 common dosing schedules for taking or receiving temozolomide capsules depending on the type of brain cancer tumor that you have.
• People with certain brain cancer tumors take or receive temozolomide capsules:
o 1 time each day for 42 to 49 days in a row, along with receiving radiation treatment. This is 1 cycle of treatment. After this, your healthcare provider may prescribe 6 more cycles of Temozolomide 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:
o 1 time each day for 5 days in a row only, and then stop taking it for the next 23 days. This is 1 cycle of treatment (28 days).
o Your healthcare provider will watch your progress on temozolomide capsules and decide how long you should take it.

• If your healthcare provider prescribes a treatment regimen that is different from the information in this leaflet, make sure you follow the instructions given to you by your healthcare provider.
• Your healthcare provider may change your dose of temozolomide capsules, or tell you to stop temozolomide capsules for a short period of time or permanently if you have certain side effects.
• Your healthcare provider will decide how many treatment cycles of temozolomide capsules that you will receive, depending on how you respond to and tolerate treatment.
• Take temozolomide capsules exactly as your healthcare provider tells you to.
• Temozolomide capsules contain a white capsule body with a color cap and the colors vary based on the dosage strength. Your healthcare provider may prescribe more than 1 strength of temozolomide capsules for you, so it is important that you understand how to take your medicine the right way. Be sure that you understand exactly how many capsules you need to take on each day of your treatment, and what strengths to take. **This may be different whenever you start a new cycle.**
**• Do not take more temozolomide capsules than prescribed.**
• Talk to your healthcare provider or pharmacist before taking your dose if you are not sure how much temozolomide capsules to take. This will help to prevent taking too 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.
• Take temozolomide capsules at the same time each day.
• Take temozolomide capsules the same way each time, either with food or without food.
• **Swallow temozolomide capsules whole with water. Do not** open, chew, or dissolve the contents of the capsules.
• If temozolomide capsules are accidentally opened or damaged, be careful not to breathe in (inhale) the powder from the capsules or get the powder on your skin or mucous membranes (for example, in your nose or mouth). If contact with any of these areas happens, wash the area with water right away.
• To help reduce nausea and vomiting, try to take temozolomide capsules on an empty stomach or at bedtime. Your healthcare provider may prescribe medicine to help prevent or treat nausea, or other medicines to reduce side effects with temozolomide capsules.
• See your healthcare provider regularly to check your progress. Your healthcare provider will check you for side effects.
• If you take more temozolomide capsules than prescribed, call your healthcare provider or get emergency medical help right away.

**What are the possible side effects of temozolomide capsules?**
**Temozolomide capsules can cause serious side effects, including:**
• **Decreased blood cell counts.** Temozolomide capsules can affect your bone marrow and cause you to have decreased blood cell counts. Decreased white blood cell count, red blood cell count and platelet count are common with temozolomide capsules but it can also be severe and lead to death. Some people need to be hospitalized or need to receive transfusions to treat their decreased blood cell counts.
o Your healthcare provider will do blood tests regularly to check your blood cell counts before you start and during treatment with temozolomide capsules.
o Your healthcare provider may need to change the dose of temozolomide capsules or when you get it depending on your blood cell counts.
o People who are age 70 or older and women have a higher risk for developing decreased blood cell counts during treatment with temozolomide capsules.

• **Liver problems. Liver problems can happen with temozolomide capsules and can sometimes be severe and lead to death**. Your healthcare provider will do blood tests to check your liver function before you start taking temozolomide capsules, during treatment, and about 2 to 4 weeks after your last dose of temozolomide capsules.
• ***Pneumocystis*pneumonia (PCP).**PCP is an infection that people can get when their immune system is weak. Temozolomide capsules decreases white blood cells, which makes your immune system weaker and can increase your risk of getting PCP.
o 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.
o Anyone who takes temozolomide capsules will be watched carefully by their healthcare provider for low blood cell counts and this infection.
o Tell your healthcare provider if you have any of the following signs and symptoms of PCP infection: shortness of breath, or fever, chills, dry cough.
• **Secondary Cancers.**Blood problems such as myelodysplastic syndrome (MDS) and new cancers (secondary cancers), including a certain kind of leukemia, can happen in people who take temozolomide capsules. Your healthcare provider will monitor you for this.
Common side effects of temozolomide capsules include:
• hair loss
• feeling tired
• headache
• constipation
• nausea and vomiting
• loss of appetite
• convulsions

Temozolomide capsules can affect fertility in males and may affect your ability to father a child. Talk with your healthcare provider if fertility is a concern for you.
Tell your healthcare provider about any side effect that bothers you or that does not go away.
These are not all the possible side effects of temozolomide capsules. For more information, ask your healthcare provider or pharmacist.
Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

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

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

**What are the ingredients in temozolomide capsules?**
**Active ingredient:**temozolomide
**Inactive ingredients:**anhydrous lactose, colloidal silica, sodium starch glycolate,

stearic acid, tartaric acid. The body of the capsules is made of gelatin and is opaque white. The cap is also made of gelatin, and the colors vary based on the dosage strength. The capsule body and cap are imprinted with pharmaceutical branding ink, which contains black iron oxide, dehydrated alcohol, isopropyl alcohol, potassium hydroxide, propylene glycol, shellac, and strong ammonia solution.
Temazolomide Capsules 5 mg: The opaque green cap contains FD&C Blue #2, gelatin, iron oxide yellow, sodium lauryl sulfate, and titanium dioxide.
Temazolomide Capsules 20 mg: The opaque yellow cap contains gelatin, iron oxide yellow, sodium lauryl sulfate, and titanium dioxide.
Temazolomide Capsules 100 mg: The opaque pink cap contains gelatin, iron oxide red, sodium lauryl sulfate, and titanium dioxide.
Temazolomide Capsules 140 mg: The opaque blue cap contains FD&C Blue #2, gelatin, sodium lauryl sulfate, and titanium dioxide.
Temazolomide Capsules 180 mg: The opaque orange cap contains gelatin, iron oxide red, sodium lauryl sulfate, and titanium dioxide.
Temazolomide Capsules 250 mg: The opaque white cap contains gelatin, sodium lauryl sulfate, and titanium dioxide.

CAMBER® PHARMACEUTICALS, INC.

Manufactured by:
Camber Pharmaceuticals, Inc.
Piscataway, NJ 08854

By: **HETEROTM**
Hetero Labs Limited, Unit V, Polepally, Jadcherla,
Mahabubnagar - 509 301, India.

For more information, call 1-866-495-1995.

This Patient Information has been approved by the U.S. Food and Drug Administration.
Revised: 10/2024

**PACKAGE LABEL.PRINCIPAL DISPLAY PANEL**

**Temozolamide capsules 5 mg 5s count container label**

CAMBER®
PHARMACEUTICALS, INC.

NDC 31722-411-31

**Temozolomide Capsules, USP**

**5 mg**

For Oral Administration

Rx only 5 Capsules

Each capsule contains 5 mg of temozolomide USP.

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

**Read accompanying directions carefully.**

**Cytotoxic: Do not open the capsules. Swallow whole.** If a capsule is damaged, avoid contact with your skin, eyes or nose.

**Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].**

**U.S. Contact Number: 1-866-495-1995**

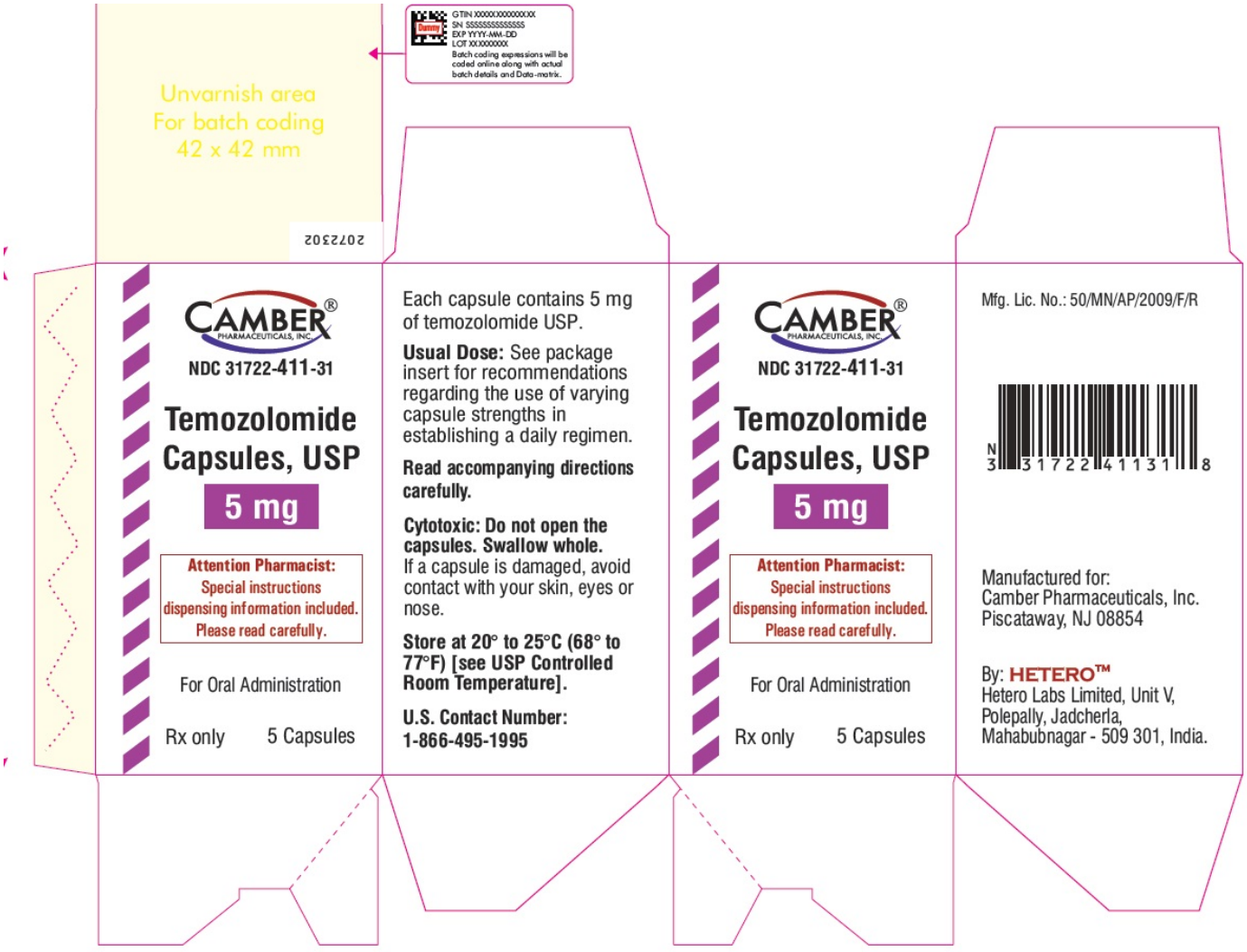
N 3 31722 41131 8

Unvarnish Area
40x18 mm

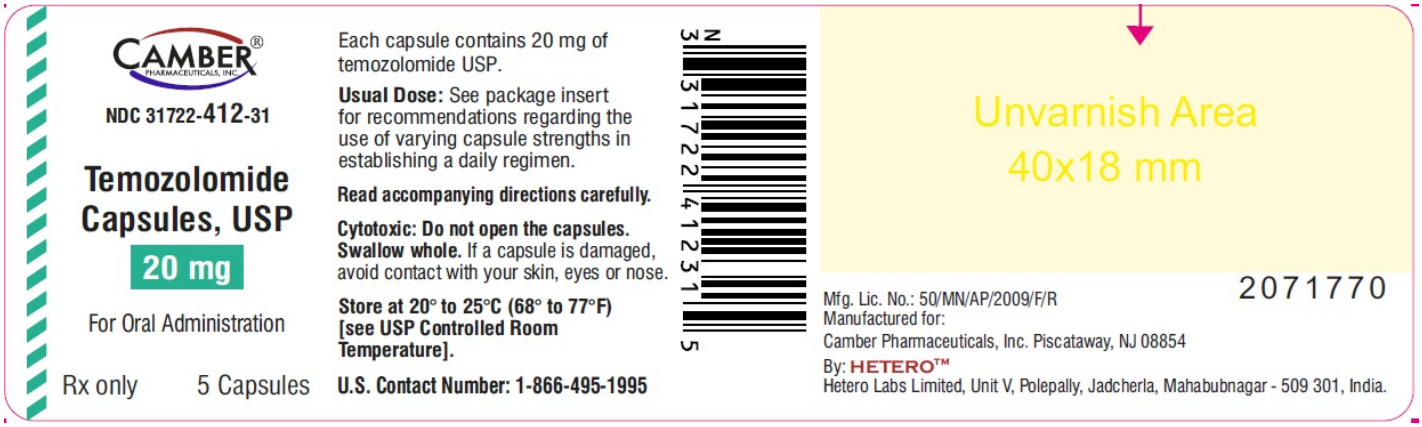
Mfg. Lic. No.: 50/MN/AP/2009/F/R
Manufactured for:
Camber Pharmaceuticals, Inc. Piscataway, NJ 08854
By: HETERO™
Hetero Labs Limited, Unit V, Polepally, Jadcherla, Mahabubnagar - 509 301, India.

2071768

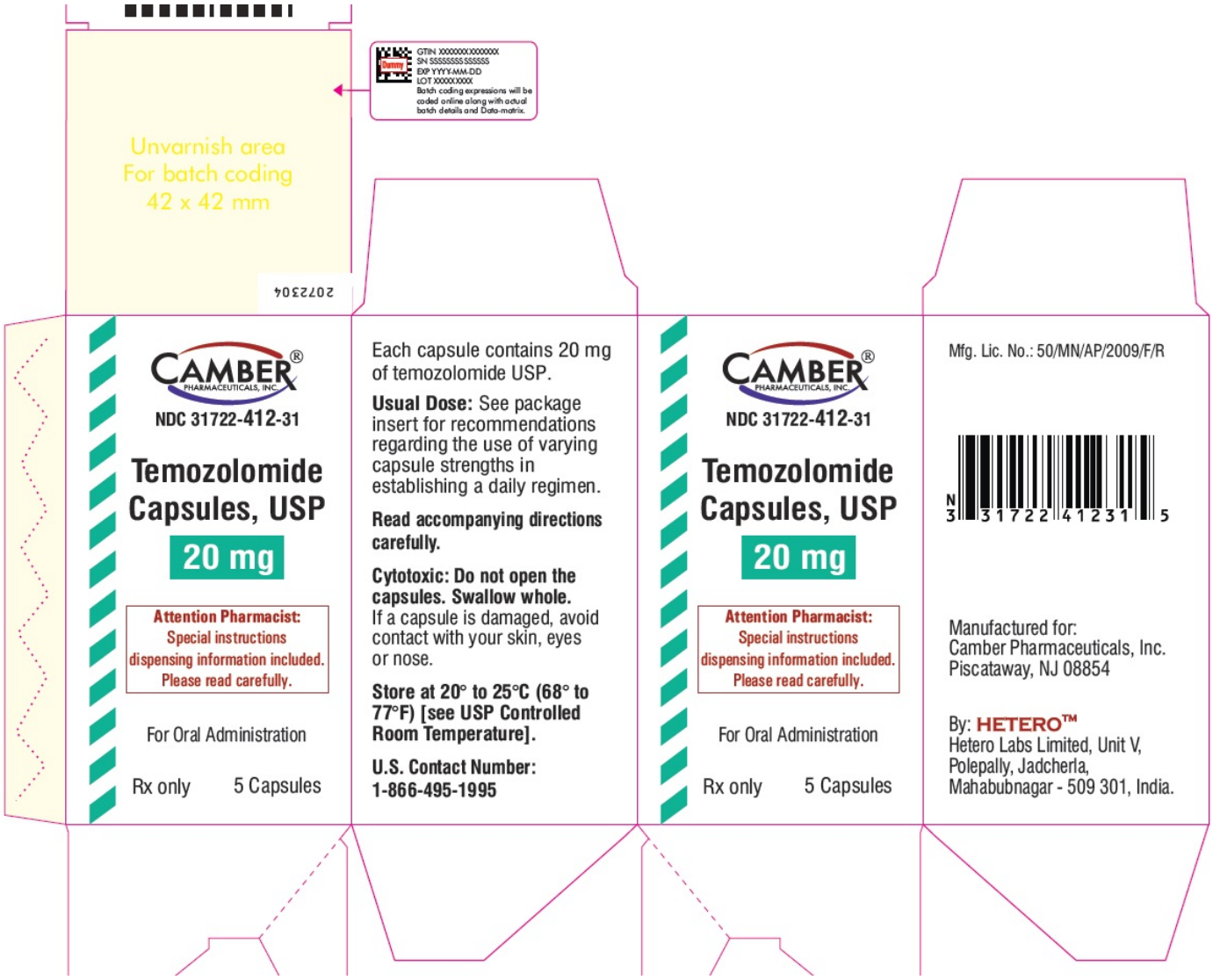
**Temozolamide capsules 5 mg 5s count carton label**



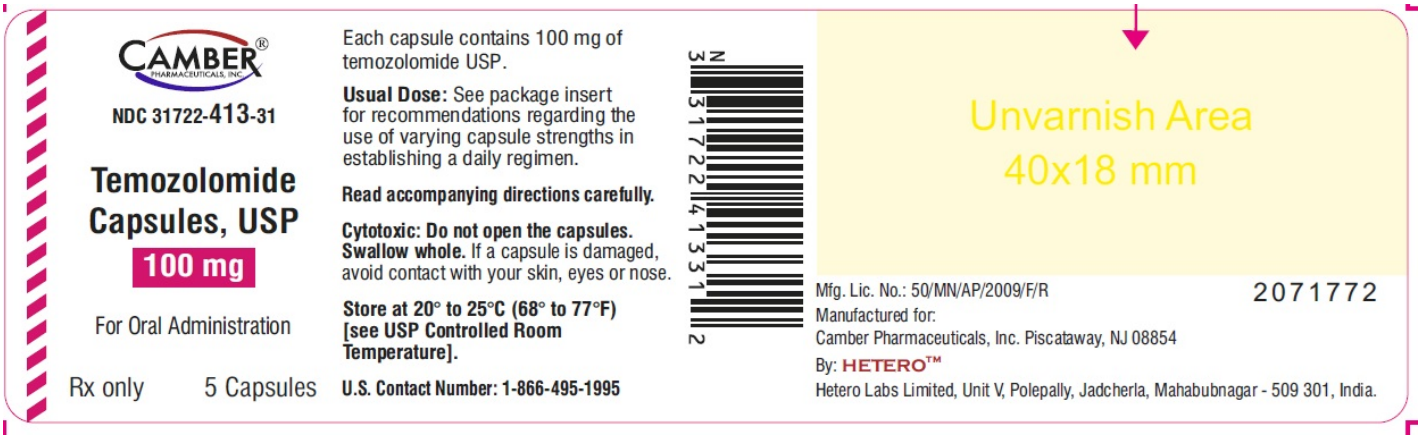

**Temozolamide capsules 20 mg 5s count container label**



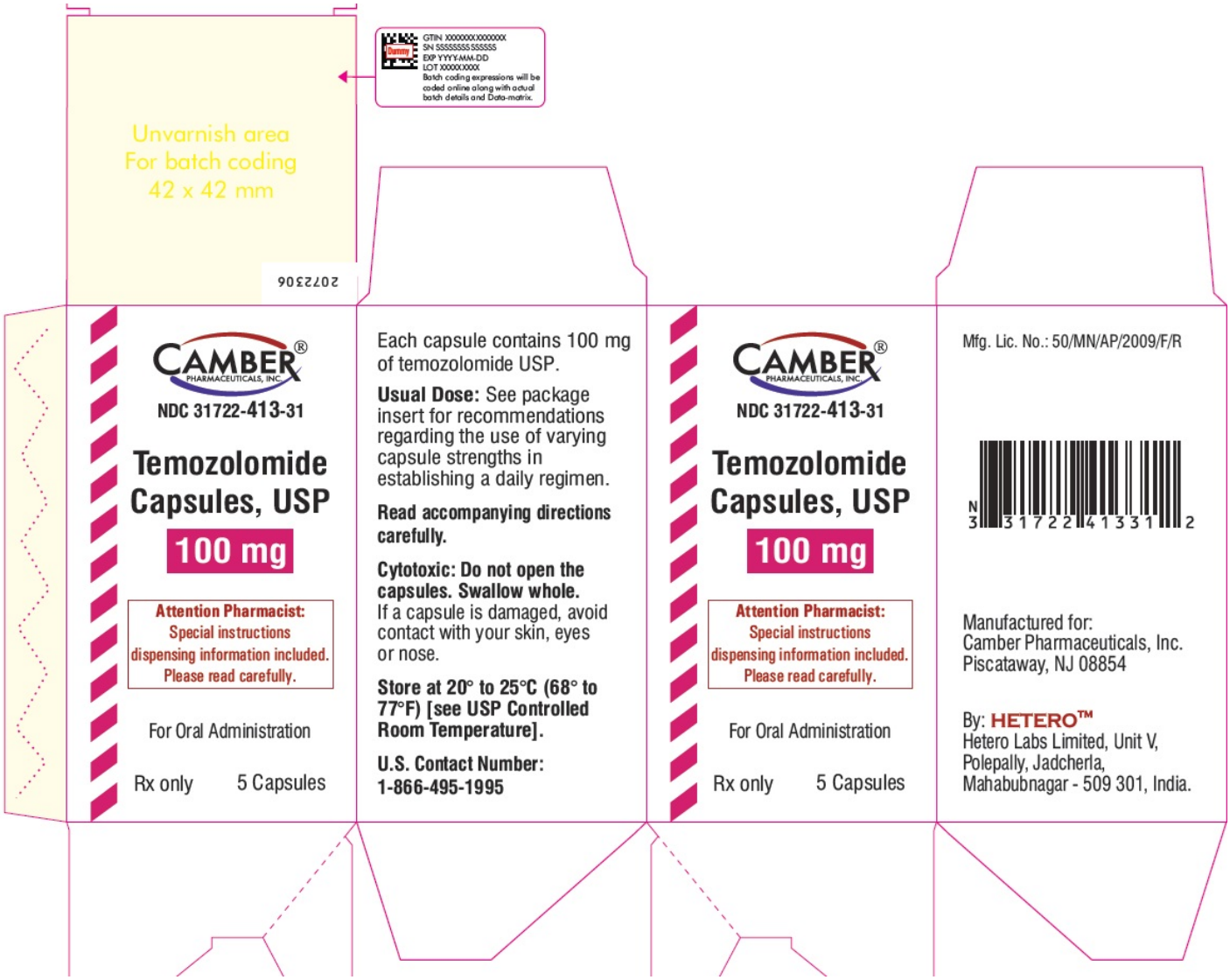

**Temozolamide capsules 20 mg 5s count carton label**



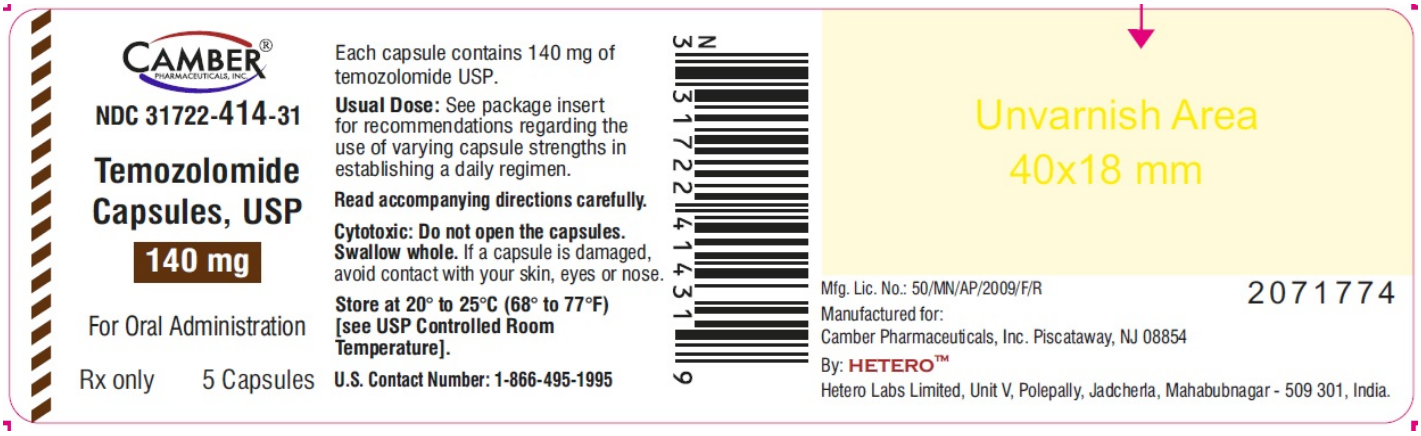

**Temozolamide capsules 100 mg 5s count container label**



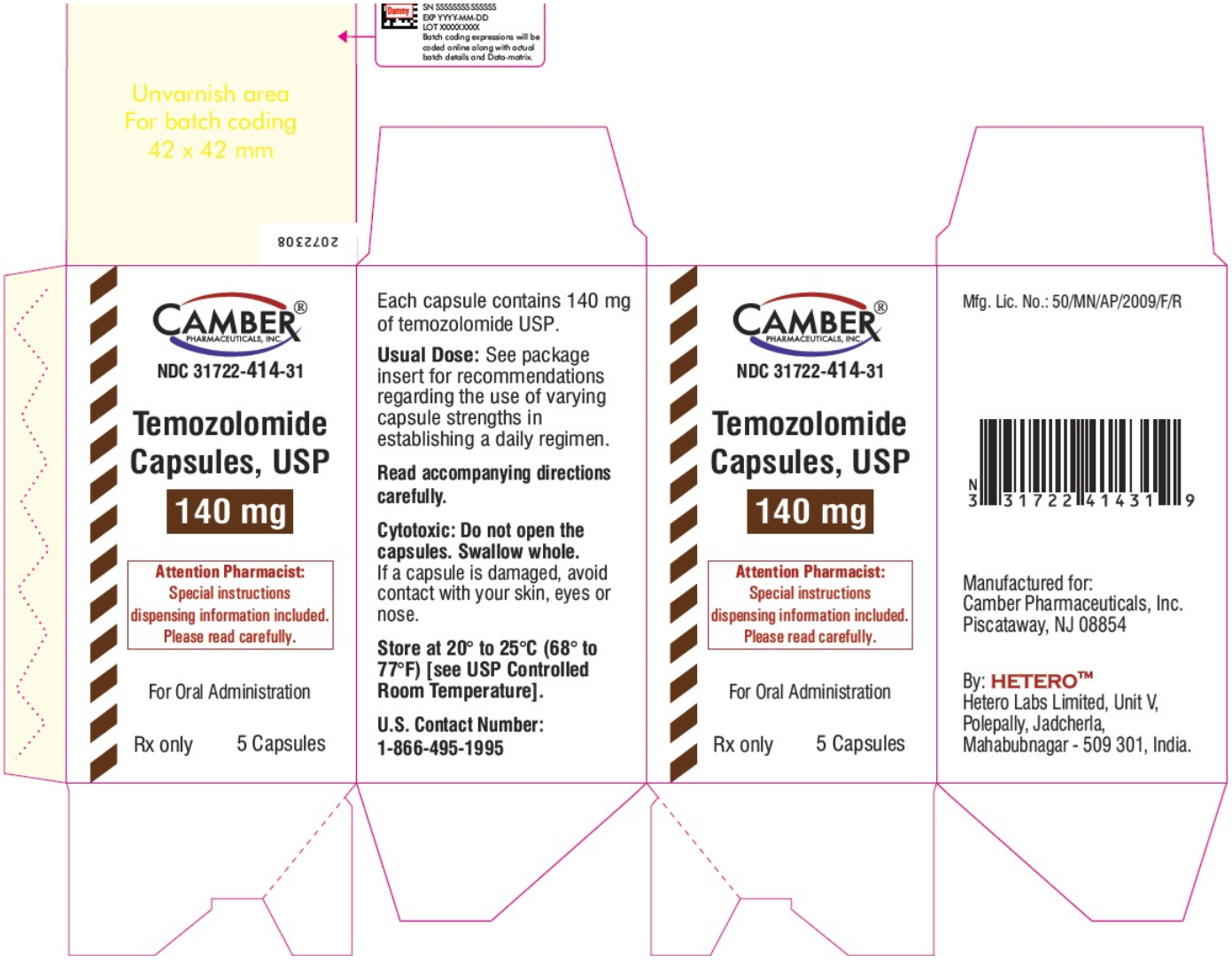

**Temozolamide capsules 100 mg 5s count carton label**



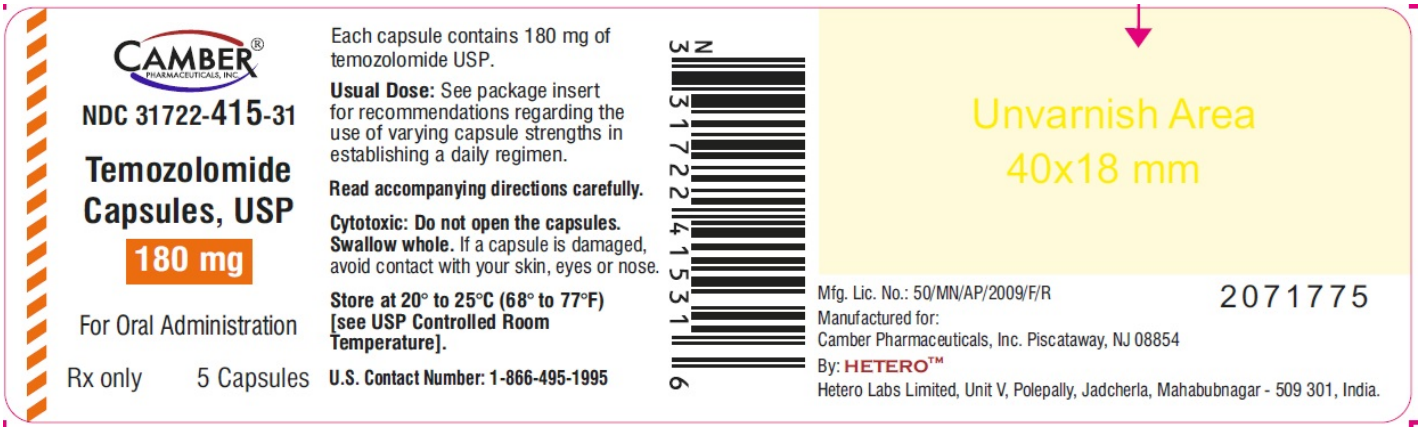

**Temozolamide capsules 140 mg 5s count container label**



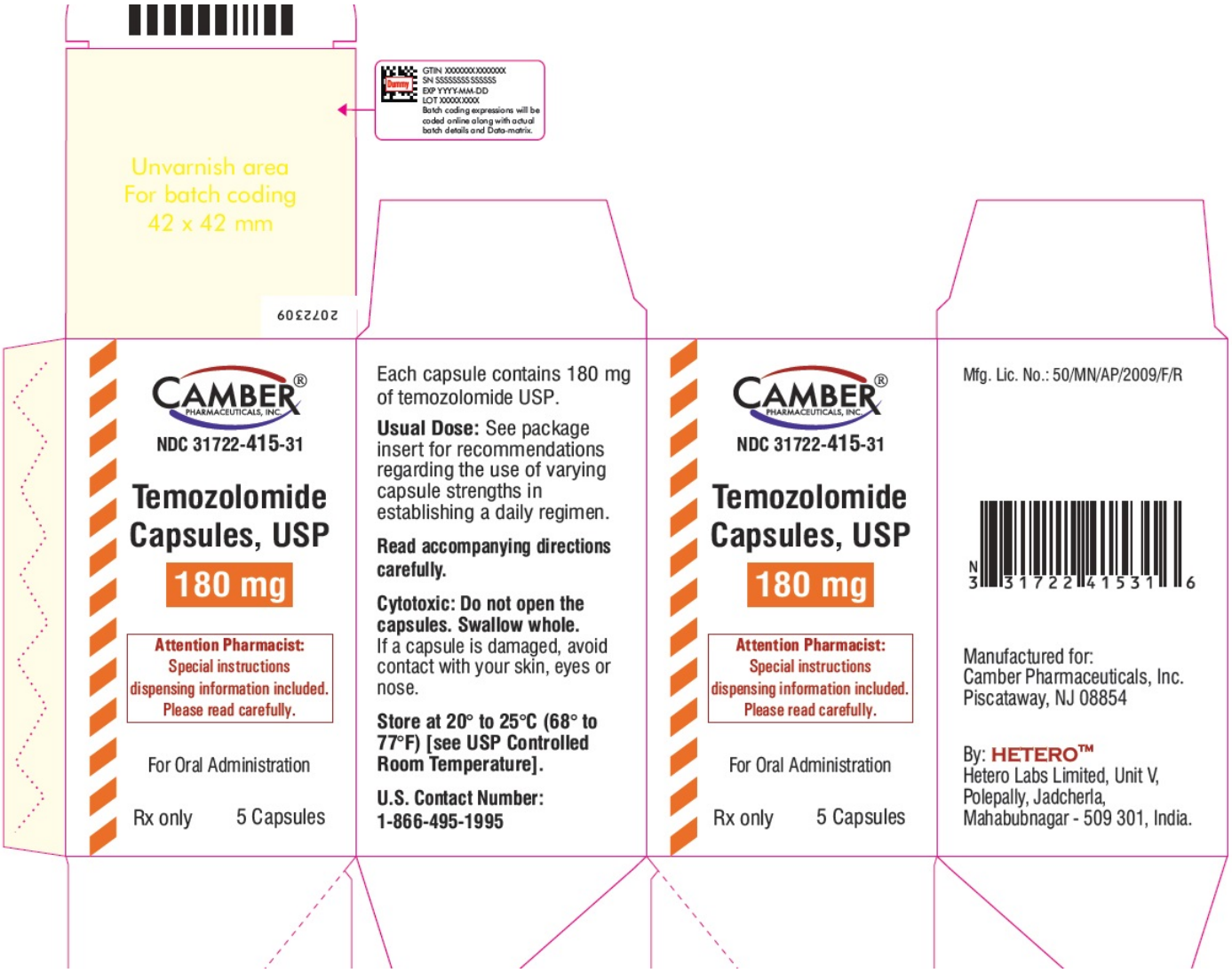

**Temozolamide capsules 140 mg 5s count carton label**



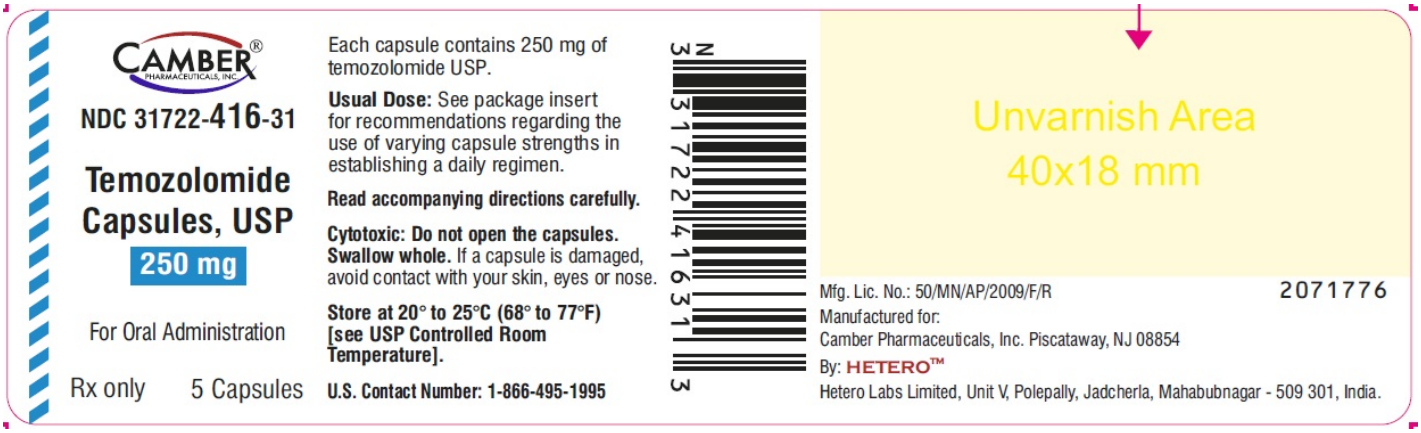

**Temozolamide capsules 180 mg 5s count container label**



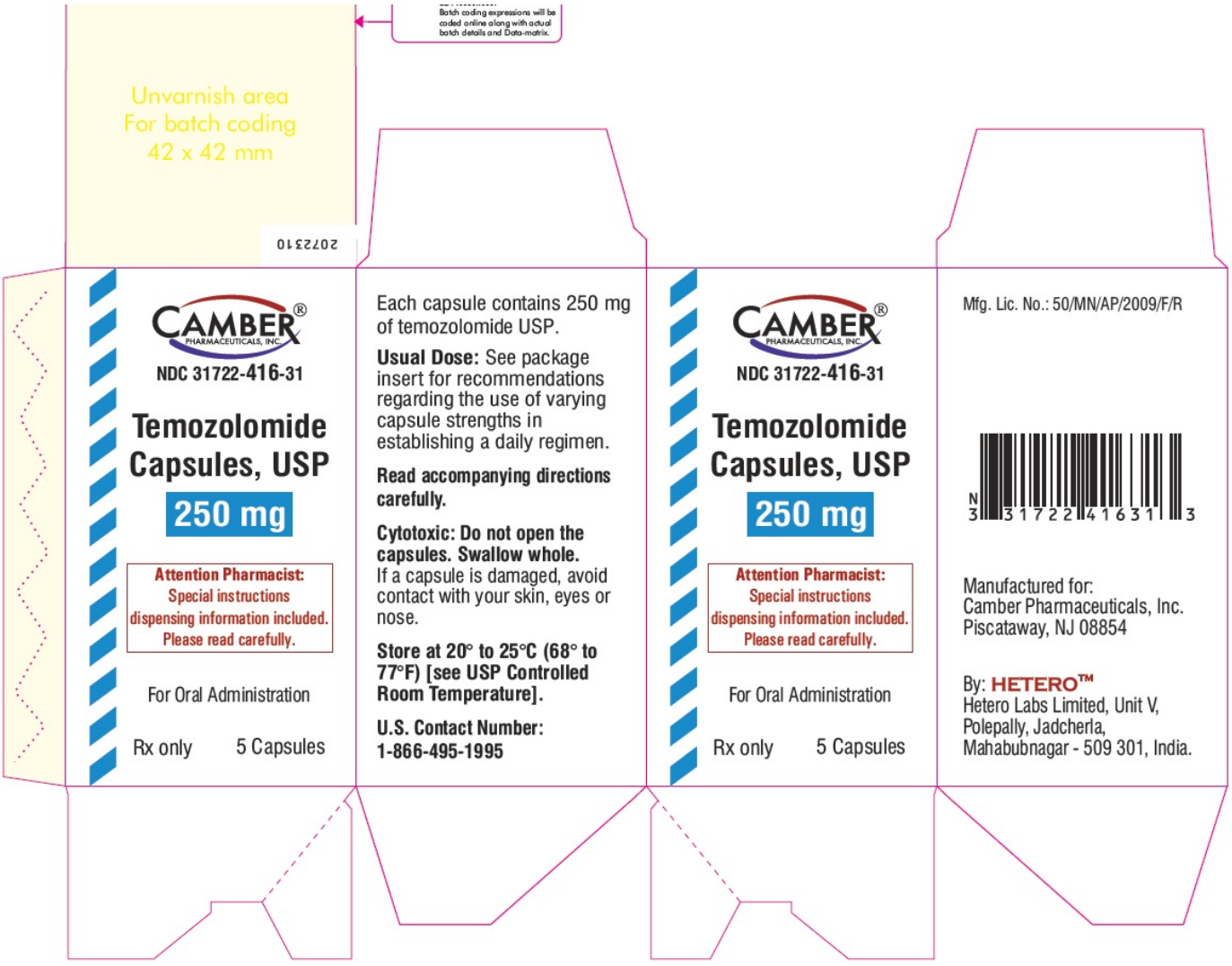

**Temozolamide capsules 180 mg 5s count carton label**




**Temozolamide capsules 250 mg 5s count container label**




## Temozolamide capsules 250 mg 5s count carton label




# TEMOZOLOMIDE

temozolomide capsule

| Product Information | | | |
|---|---|---|---|
| **Product Type** | HUMAN PRESCRIPTION DRUG | **Item Code (Source)** | NDC:31722-411 |
| **Route of Administration** | ORAL | | |

## Active Ingredient/Active Moiety

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

## Inactive Ingredients

| Ingredient Name | Strength |
|---|---|
| **ANHYDROUS LACTOSE** (UNII: 3SY5LH9PMK) | |
| **SILICA DIMETHYL SILYLATE** (UNII: EU2PSP0G0W) | |
| **SODIUM STARCH GLYCOLATE TYPE A POTATO** (UNII: 5856J3G2A2) | |
| **STEARIC ACID** (UNII: 4ELV7Z65AP) | |
| **TARTARIC ACID** (UNII: W4888I119H) | |
| **FD&C BLUE NO. 2** (UNII: L06K8R7DQK) | |
| **GELATIN, UNSPECIFIED** (UNII: 2G86QN327L) | |
| **FERRIC OXIDE YELLOW** (UNII: EX438O2MRT) | |
| **SODIUM LAURYL SULFATE** (UNII: 368GB5141J) | |
| **TITANIUM DIOXIDE** (UNII: 15FIX9V2JP) | |
| **FERROSOFERRIC OXIDE** (UNII: XM0M87F357) | |
| **ALCOHOL** (UNII: 3K9958V90M) | |
| **ISOPROPYL ALCOHOL** (UNII: ND2M416302) | |
| **POTASSIUM HYDROXIDE** (UNII: WZH3C48M4T) | |
| **PROPYLENE GLYCOL** (UNII: 6DC9Q167V3) | |
| **SHELLAC** (UNII: 46N107B71O) | |
| **AMMONIA** (UNII: 5138Q19F1X) | |

## Product Characteristics

| | | | |
|---|---|---|---|
| **Color** | green (opaque green cap) , white (opaque white body) | **Score** | no score |
| **Shape** | CAPSULE | **Size** | 16mm |
| **Flavor** | | **Imprint Code** | 13;H |
| **Contains** | | | |

## Packaging

| # | Item Code | Package Description | Marketing Start Date | Marketing End Date |
|---|---|---|---|---|
| **1** | NDC:31722-411-31 | 5 in 1 BOTTLE; Type 0: Not a Combination Product | 08/23/2024 | |
| **2** | NDC:31722-411-14 | 14 in 1 BOTTLE; Type 0: Not a Combination Product | 08/23/2024 | |

## Marketing Information

| Marketing Category | Application Number or Monograph Citation | Marketing Start Date | Marketing End Date |
|---|---|---|---|
| ANDA | ANDA210030 | 08/23/2024 | |

# TEMOZOLOMIDE

temozolomide capsule

| Product Information | | | |
|---|---|---|---|
| **Product Type** | HUMAN PRESCRIPTION DRUG | **Item Code (Source)** | NDC:31722-412 |
| **Route of Administration** | ORAL | | |

| Active Ingredient/Active Moiety | | |
|---|---|---|
| **Ingredient Name** | **Basis of Strength** | **Strength** |
| **TEMOZOLOMIDE** (UNII: YF1K15M17Y) (TEMOZOLOMIDE - UNII:YF1K15M17Y) | TEMOZOLOMIDE | 20 mg |

| Inactive Ingredients | |
|---|---|
| **Ingredient Name** | **Strength** |
| **ANHYDROUS LACTOSE** (UNII: 3SY5LH9PMK) | |
| **SILICA DIMETHYL SILYLATE** (UNII: EU2PSP0G0W) | |
| **SODIUM STARCH GLYCOLATE TYPE A POTATO** (UNII: 5856J3G2A2) | |
| **STEARIC ACID** (UNII: 4ELV7Z65AP) | |
| **TARTARIC ACID** (UNII: W4888I119H) | |
| **GELATIN, UNSPECIFIED** (UNII: 2G86QN327L) | |
| **FERRIC OXIDE YELLOW** (UNII: EX438O2MRT) | |
| **SODIUM LAURYL SULFATE** (UNII: 368GB5141J) | |
| **TITANIUM DIOXIDE** (UNII: 15FIX9V2JP) | |
| **FERROSOFERRIC OXIDE** (UNII: XM0M87F357) | |
| **ALCOHOL** (UNII: 3K9958V90M) | |
| **ISOPROPYL ALCOHOL** (UNII: ND2M416302) | |
| **POTASSIUM HYDROXIDE** (UNII: WZH3C48M4T) | |
| **PROPYLENE GLYCOL** (UNII: 6DC9Q167V3) | |
| **SHELLAC** (UNII: 46N107B71O) | |
| **AMMONIA** (UNII: 5138Q19F1X) | |

| Product Characteristics | | | |
|---|---|---|---|
| **Color** | yellow (opaque yellow cap) , white (opaque white body) | **Score** | no score |
| **Shape** | CAPSULE | **Size** | 14mm |
| **Flavor** | | **Imprint Code** | 14;H |
| **Contains** | | | |

| Packaging | | | | |
|---|---|---|---|---|
| **#** | **Item Code** | **Package Description** | **Marketing Start Date** | **Marketing End Date** |
| **1** | NDC:31722-412-31 | 5 in 1 BOTTLE; Type 0: Not a Combination Product | 08/23/2024 | |
| **2** | NDC:31722-412-14 | 14 in 1 BOTTLE; Type 0: Not a Combination Product | 08/23/2024 | |

## Marketing Information

| Marketing Category | Application Number or Monograph Citation | Marketing Start Date | Marketing End Date |
|---|---|---|---|
| ANDA | ANDA210030 | 08/23/2024 | |

# TEMOZOLOMIDE

temozolomide capsule

## Product Information

| | | | |
|---|---|---|---|
| **Product Type** | HUMAN PRESCRIPTION DRUG | **Item Code (Source)** | NDC:31722-413 |
| **Route of Administration** | ORAL | | |

## Active Ingredient/Active Moiety

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

## Inactive Ingredients

| Ingredient Name | Strength |
|---|---|
| **ANHYDROUS LACTOSE** (UNII: 3SY5LH9PMK) | |
| **SILICA DIMETHYL SILYLATE** (UNII: EU2PSP0G0W) | |
| **SODIUM STARCH GLYCOLATE TYPE A POTATO** (UNII: 5856J3G2A2) | |
| **STEARIC ACID** (UNII: 4ELV7Z65AP) | |
| **TARTARIC ACID** (UNII: W4888I119H) | |
| **GELATIN, UNSPECIFIED** (UNII: 2G86QN327L) | |
| **FERRIC OXIDE RED** (UNII: 1K09F3G675) | |
| **SODIUM LAURYL SULFATE** (UNII: 368GB5141J) | |
| **TITANIUM DIOXIDE** (UNII: 15FIX9V2JP) | |
| **FERROSOFERRIC OXIDE** (UNII: XM0M87F357) | |
| **ALCOHOL** (UNII: 3K9958V90M) | |
| **ISOPROPYL ALCOHOL** (UNII: ND2M416302) | |
| **POTASSIUM HYDROXIDE** (UNII: WZH3C48M4T) | |
| **PROPYLENE GLYCOL** (UNII: 6DC9Q167V3) | |
| **SHELLAC** (UNII: 46N107B71O) | |
| **AMMONIA** (UNII: 5138Q19F1X) | |

## Product Characteristics

| | | | |
|---|---|---|---|
| **Color** | pink (opaque pink cap) , white (opaque white body) | **Score** | no score |
| **Shape** | CAPSULE | **Size** | 19mm |
| **Flavor** | | **Imprint Code** | 15;H |
| **Contains** | | | |

## Packaging

| # | Item Code | Package Description | Marketing Start Date | Marketing End Date |
|---|---|---|---|---|
| 1 | NDC:31722-413-31 | 5 in 1 BOTTLE; Type 0: Not a Combination Product | 08/23/2024 | |
| 2 | NDC:31722-413-14 | 14 in 1 BOTTLE; Type 0: Not a Combination Product | 08/23/2024 | |

## Marketing Information

| Marketing Category | Application Number or Monograph Citation | Marketing Start Date | Marketing End Date |
|---|---|---|---|
| ANDA | ANDA210030 | 08/23/2024 | |

# TEMOZOLOMIDE

temozolomide capsule

## Product Information

| | | | |
|---|---|---|---|
| **Product Type** | HUMAN PRESCRIPTION DRUG | **Item Code (Source)** | NDC:31722-414 |
| **Route of Administration** | ORAL | | |

## Active Ingredient/Active Moiety

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

## Inactive Ingredients

| Ingredient Name | Strength |
|---|---|
| **ANHYDROUS LACTOSE** (UNII: 3SY5LH9PMK) | |
| **SILICA DIMETHYL SILYLATE** (UNII: EU2PSP0G0W) | |
| **SODIUM STARCH GLYCOLATE TYPE A POTATO** (UNII: 5856J3G2A2) | |
| **STEARIC ACID** (UNII: 4ELV7Z65AP) | |
| **TARTARIC ACID** (UNII: W4888I119H) | |
| **FD&C BLUE NO. 2** (UNII: L06K8R7DQK) | |
| **GELATIN, UNSPECIFIED** (UNII: 2G86QN327L) | |
| **SODIUM LAURYL SULFATE** (UNII: 368GB5141J) | |
| **TITANIUM DIOXIDE** (UNII: 15FIX9V2JP) | |
| **FERROSOFERRIC OXIDE** (UNII: XM0M87F357) | |
| **ALCOHOL** (UNII: 3K9958V90M) | |
| **ISOPROPYL ALCOHOL** (UNII: ND2M416302) | |
| **POTASSIUM HYDROXIDE** (UNII: WZH3C48M4T) | |
| **PROPYLENE GLYCOL** (UNII: 6DC9Q167V3) | |
| **SHELLAC** (UNII: 46N107B71O) | |
| **AMMONIA** (UNII: 5138Q19F1X) | |

| Product Characteristics | | | |
|---|---|---|---|
| **Color** | blue (opaque blue cap) , white (opaque white body) | **Score** | no score |
| **Shape** | CAPSULE | **Size** | 21mm |
| **Flavor** | | **Imprint Code** | 16;H |
| **Contains** | | | |

| Packaging | | | | |
|---|---|---|---|---|
| **#** | **Item Code** | **Package Description** | **Marketing Start Date** | **Marketing End Date** |
| **1** | NDC:31722-414-31 | 5 in 1 BOTTLE; Type 0: Not a Combination Product | 08/23/2024 | |
| **2** | NDC:31722-414-14 | 14 in 1 BOTTLE; Type 0: Not a Combination Product | 08/23/2024 | |

## Marketing Information

| Marketing Category | Application Number or Monograph Citation | Marketing Start Date | Marketing End Date |
|---|---|---|---|
| ANDA | ANDA210030 | 08/23/2024 | |

# TEMOZOLOMIDE

temozolomide capsule

| Product Information | | | |
|---|---|---|---|
| **Product Type** | HUMAN PRESCRIPTION DRUG | **Item Code (Source)** | NDC:31722-415 |
| **Route of Administration** | ORAL | | |

| Active Ingredient/Active Moiety | | |
|---|---|---|
| **Ingredient Name** | **Basis of Strength** | **Strength** |
| **TEMOZOLOMIDE** (UNII: YF1K15M17Y) (TEMOZOLOMIDE - UNII:YF1K15M17Y) | TEMOZOLOMIDE | 180 mg |

| Inactive Ingredients | |
|---|---|
| **Ingredient Name** | **Strength** |
| **ANHYDROUS LACTOSE** (UNII: 3SY5LH9PMK) | |
| **SILICA DIMETHYL SILYLATE** (UNII: EU2PSP0G0W) | |
| **SODIUM STARCH GLYCOLATE TYPE A POTATO** (UNII: 5856J3G2A2) | |
| **STEARIC ACID** (UNII: 4ELV7Z65AP) | |
| **TARTARIC ACID** (UNII: W4888I119H) | |
| **GELATIN, UNSPECIFIED** (UNII: 2G86QN327L) | |
| **FERRIC OXIDE RED** (UNII: 1K09F3G675) | |
| **SODIUM LAURYL SULFATE** (UNII: 368GB5141J) | |
| **TITANIUM DIOXIDE** (UNII: 15FIX9V2JP) | |
| **FERROSOFERRIC OXIDE** (UNII: XM0M87F357) | |
| **ALCOHOL** (UNII: 3K9958V90M) | |

| | |
|---|---|
| **ISOPROPYL ALCOHOL** (UNII: ND2M416302) | |
| **POTASSIUM HYDROXIDE** (UNII: WZH3C48M4T) | |
| **PROPYLENE GLYCOL** (UNII: 6DC9Q167V3) | |
| **SHELLAC** (UNII: 46N107B71O) | |
| **AMMONIA** (UNII: 5138Q19F1X) | |

### Product Characteristics

| | | | |
|---|---|---|---|
| **Color** | orange (opaque orange cap) , white (opaque white body) | **Score** | no score |
| **Shape** | CAPSULE | **Size** | 21mm |
| **Flavor** | | **Imprint Code** | 17;H |
| **Contains** | | | |

### Packaging

| # | Item Code | Package Description | Marketing Start Date | Marketing End Date |
|---|---|---|---|---|
| **1** | NDC:31722-415-31 | 5 in 1 BOTTLE; Type 0: Not a Combination Product | 08/23/2024 | |
| **2** | NDC:31722-415-14 | 14 in 1 BOTTLE; Type 0: Not a Combination Product | 08/23/2024 | |

## Marketing Information

| Marketing Category | Application Number or Monograph Citation | Marketing Start Date | Marketing End Date |
|---|---|---|---|
| ANDA | ANDA210030 | 08/23/2024 | |

# TEMOZOLOMIDE

temozolomide capsule

### Product Information

| | | | |
|---|---|---|---|
| **Product Type** | HUMAN PRESCRIPTION DRUG | **Item Code (Source)** | NDC:31722-416 |
| **Route of Administration** | ORAL | | |

### Active Ingredient/Active Moiety

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

### Inactive Ingredients

| Ingredient Name | Strength |
|---|---|
| **ANHYDROUS LACTOSE** (UNII: 3SY5LH9PMK) | |
| **SILICA DIMETHYL SILYLATE** (UNII: EU2PSP0G0W) | |
| **SODIUM STARCH GLYCOLATE TYPE A POTATO** (UNII: 5856J3G2A2) | |

| | |
|---|---|
| **STEARIC ACID** (UNII: 4ELV7Z65AP) | |
| **TARTARIC ACID** (UNII: W4888I119H) | |
| **GELATIN, UNSPECIFIED** (UNII: 2G86QN327L) | |
| **SODIUM LAURYL SULFATE** (UNII: 368GB5141J) | |
| **TITANIUM DIOXIDE** (UNII: 15FIX9V2JP) | |
| **FERROSOFERRIC OXIDE** (UNII: XM0M87F357) | |
| **ALCOHOL** (UNII: 3K9958V90M) | |
| **ISOPROPYL ALCOHOL** (UNII: ND2M416302) | |
| **POTASSIUM HYDROXIDE** (UNII: WZH3C48M4T) | |
| **PROPYLENE GLYCOL** (UNII: 6DC9Q167V3) | |
| **SHELLAC** (UNII: 46N107B71O) | |
| **AMMONIA** (UNII: 5138Q19F1X) | |

## Product Characteristics

| | | | |
|---|---|---|---|
| **Color** | white (opaque white cap) , white (opaque white body) | **Score** | no score |
| **Shape** | CAPSULE | **Size** | 21mm |
| **Flavor** | | **Imprint Code** | 18;H |
| **Contains** | | | |

## Packaging

| # | Item Code | Package Description | Marketing Start Date | Marketing End Date |
|---|---|---|---|---|
| **1** | NDC:31722-416-31 | 5 in 1 BOTTLE; Type 0: Not a Combination Product | 08/23/2024 | |
| **2** | NDC:31722-416-14 | 14 in 1 BOTTLE; Type 0: Not a Combination Product | 08/23/2024 | |

## Marketing Information

| Marketing Category | Application Number or Monograph Citation | Marketing Start Date | Marketing End Date |
|---|---|---|---|
| ANDA | ANDA210030 | 08/23/2024 | |

## Labeler - Camber Pharmaceuticals, Inc. (826774775)

## Establishment

| Name | Address | ID/FEI | Business Operations |
|---|---|---|---|
| Hetero Labs Limited Unit V | | 650452530 | manufacture(31722-411, 31722-412, 31722-413, 31722-414, 31722-415, 31722-416) |

Revised: 10/2024 Camber Pharmaceuticals, Inc.