

Trodelvy (sacituzumab govitecan-hziy)



NEW PRODUCT SLIDESHOW

MPR

Introduction

- **Brand name:** Trodelvy
- **Generic name:** Sacituzumab govitecan-hziy
- **Pharmacologic class:** Trop-2-directed antibody and topoisomerase inhibitor conjugate
- **Strength and Formulation:** 180mg; per vial; lyophilized powder for IV infusion after reconstitution and dilution; preservative-free
- **Manufacturer:** Immunomedics
- **How supplied:** Single-dose vial—1
- **Legal Classification:** Rx

Trodelvy



Indication

- For the treatment of adult patients with **metastatic triple-negative breast cancer** (mTNBC) who have received at least 2 prior therapies for metastatic disease
 - Indication is approved under accelerated approval based on tumor response rate and duration of response
 - Continued approval may be contingent upon verification and description of clinical benefit in confirmatory trials

Dosage and Administration

- Premedicate with antipyretics, H₁ and H₂ blockers prior to infusion; may use corticosteroids for those with prior infusion reactions
- Also, can premedicate with a 2 or 3 drug combination regimen (eg, dexamethasone with either a 5-HT₃ or NK₁ receptor antagonist)
- Give by IV infusion over 3 hours for 1st infusion, then over 1–2 hours for subsequent infusions if tolerated
- **10mg/kg (max dose) once weekly on Days 1 and 8 of 21-day cycles**
- Continue until disease progression or unacceptable toxicity

Dose Modification for Adverse Reactions

Severe Neutropenia

- Grade 4 neutropenia ≥ 7 days, **or** Grade 3 febrile neutropenia (absolute neutropenia count $< 1000/\text{mm}^3$ and fever $\geq 38.5^\circ\text{C}$, **or** at time of scheduled treatment, Grade 3-4 neutropenia which delays dosing by 2 or 3 weeks for recovery to \leq Grade 1
 - *First occurrence*: 25% dose reduction and administer granulocyte-colony stimulating factor
 - *Second occurrence*: 50% dose reduction
 - *Third occurrence*: Discontinue treatment
- At time of scheduled treatment, Grade 3-4 neutropenia which delays dosing beyond 3 weeks for recovery to \leq Grade 1
 - *First occurrence*: Discontinue treatment

Dose Modification for Adverse Reactions

Severe Non-Neutropenic Toxicity

- Grade 4 non-hematologic toxicity of any duration, **or** any Grade 3-4 nausea, vomiting or diarrhea due to treatment that is not controlled with antiemetics and antidiarrheals, **or** other Grade 3-4 non-hematologic toxicity persisting >48 hours despite optimal medical management, **or** at time of scheduled treatment, Grade 3-4 non-neutropenic hematologic or non-hematologic toxicity, which delays dose by 2 or 3 weeks for recovery to \leq Grade 1
 - *First occurrence*: 25% dose reduction
 - *Second occurrence*: 50% dose reduction
 - *Third occurrence*: Discontinue treatment
- In the event of Grade 3-4 non-neutropenic hematologic or non-hematologic toxicity, which does not recover to \leq Grade 1 within 3 weeks
 - *First occurrence*: Discontinue treatment

Considerations for Special Populations

- **Pregnancy:** can cause teratogenicity and/or embryo-fetal lethality
- **Nursing mothers:** not recommended during treatment and for 1 month after last dose
- **Pediatric:** not established
- **Geriatrics:** no overall differences in safety or effectiveness observed
- **Hepatic impairment:** safety in patients with moderate or severe impairment not established; has not been tested in patients with serum bilirubin >1.5 ULN, or AST and ALT >3 ULN, or AST and ALT >5 ULN and associated with liver metastases

Boxed Warnings

- **Severe neutropenia may occur**
 - Withhold for absolute neutrophil count below 1500/mm³ or neutropenic fever
 - Monitor blood cell counts periodically during treatment
 - Consider G-CSF for secondary prophylaxis
 - Initiate anti-infective treatment in patients with febrile neutropenia without delay
- **Severe diarrhea may occur**
 - Monitor and give fluid and electrolytes as needed
 - Administer atropine, if not contraindicated, for early diarrhea of any severity
 - At the onset of late diarrhea, evaluate for infectious causes and, if negative, promptly initiate loperamide
 - If severe diarrhea occurs, withhold until resolved to ≤ Grade 1 and reduce subsequent doses

Warnings/Precautions

- Do not substitute Trodelvy for or use with other drugs containing irinotecan or its active metabolite SN-38
- Monitor closely for infusion-related reactions during and for at least 30mins after each infusion
- Permanently discontinue if life-threatening infusion-related reactions occur
- Patients homozygous for UGT1A1*28 allele
- Monitor closely in those with reduced UGT1A1 activity for severe neutropenia
- Effective contraception should be used during and for 6 months in females or 3 months in males with female partners after the last dose

Interactions

- May be potentiated by UGT1A1 inhibitors; avoid
- May be antagonized by UGT1A1 inducers; avoid

Adverse Reactions

- **Most frequent ($\geq 25\%$):** nausea, neutropenia, diarrhea, fatigue, anemia, vomiting, alopecia, constipation, rash, decreased appetite, and abdominal pain
- **Others:** lab abnormalities, hypersensitivity reactions

Mechanism of Action

- Sacituzumab govitecan-hziy is a Trop-2-directed antibody and topoisomerase inhibitor drug conjugate that binds to Trop-2-expressing cancer cells and is internalized with the subsequent release of SN-38, the active metabolite of irinotecan
- The resulting DNA damage leads to apoptosis and cell death

Pharmacogenomics

- SN-38 is metabolized via UGT1A1
- Genetic variants of the UGT1A1 gene such as the UGT1A1*28 allele lead to reduced UGT1A1 enzyme activity
- Patients who are homozygous for the UGT1A1*28 allele are at increased risk for neutropenia from Trodelvy

Clinical Trials

- Efficacy of Trodelvy was evaluated in a single-arm trial (IMMU-132-01) that included 108 patients with mTNBC who had received at least 2 prior treatments for metastatic disease
- Patients received Trodelvy 10mg/kg intravenously on Days 1 and 8 of a 21-day cycle until disease progression or intolerance to therapy
- Primary efficacy outcome: overall response rate (ORR) using RECIST 1.1 and duration of response (DoR)

Clinical Trials

■ Patient demographics

- Median age: 55 years; 87% were younger than 65 years
- 99% female; 76% White
- ECOG performance status of 0 (29%) or 1 (71%)
- 76% had visceral disease; 42% had hepatic metastases; 56% had lung/pleura metastases; 2% had brain metastases
- 11% had Stage IV disease at the time of initial diagnosis
- Median number of prior systemic therapies: 3 (range 2-10)
- Prior therapies included: carboplatin or cisplatin (69%), gemcitabine (55%), paclitaxel or docetaxel (53%), capecitabine (51%), eribulin (45%), doxorubicin (24%), vinorelbine (16%), cyclophosphamide (19%), and ixabepilone (8%)

Clinical Trials

- Results showed an ORR of 33.3% (95% CI, 24.6-43.1) with 2.8% of patients achieving a complete response and 30.6% having a partial response
- Among the 36 responders, the median DoR was 7.7 months (95% CI, 4.9-10.8); 55.6% of these patients maintained response for ≥ 6 months, while 16.7% maintained response for ≥ 12 months

New Product Monograph

- For more information view the product monograph available at:

<https://www.empr.com/drug/trodelvy/>