

TIVDAK- tisotumab vedotin injection, powder, for solution SEAGEN INC.

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

TIVDAK® (tisotumab vedotin-tftv) for injection, for intravenous use
Initial U.S. Approval: 2021

WARNING: OCULAR TOXICITY

See full prescribing information for complete boxed warning.

- TIVDAK can cause severe ocular toxicities resulting in changes in vision, including severe vision loss and corneal ulceration. (5.1)
- Conduct an ophthalmic exam, including an assessment of ocular symptoms, visual acuity, and slit lamp exam of the anterior segment of the eye prior to initiation of TIVDAK, prior to every cycle for the first nine cycles, and as clinically indicated. (2.2, 5.1)
- Adhere to the required premedication and eye care before, during, and after infusion. (2.2)
- Withhold TIVDAK until improvement and resume, reduce the dose, or permanently discontinue, based on severity. (2.3, 5.1)

INDICATIONS AND USAGE

TIVDAK is a tissue factor-directed antibody and microtubule inhibitor conjugate indicated for the treatment of adult patients with recurrent or metastatic cervical cancer with disease progression on or after chemotherapy. (1)

DOSAGE AND ADMINISTRATION

- *For intravenous infusion only.* Do not administer TIVDAK as an intravenous push or bolus. Do not mix with, or administer as an infusion with, other medicinal products. (2.4)
- The recommended dose of TIVDAK is 2 mg/kg (up to a maximum of 200 mg) given as an intravenous infusion over 30 minutes every 3 weeks until disease progression or unacceptable toxicity. (2.1)

DOSAGE FORMS AND STRENGTHS

For Injection: 40 mg as a lyophilized cake or powder in a single-dose vial for reconstitution. (3)

CONTRAINDICATIONS

None. (4)

WARNINGS AND PRECAUTIONS

- Peripheral neuropathy: Monitor patients for new or worsening peripheral neuropathy. Withhold, reduce the dose, or permanently discontinue TIVDAK based on severity. (2.3, 5.2)
- Hemorrhage: Monitor patients for signs and symptoms of hemorrhage. Withhold, reduce the dose, or permanently discontinue TIVDAK based on severity. (2.3, 5.3)
- Pneumonitis: Severe, life-threatening, or fatal pneumonitis may occur. Withhold TIVDAK for persistent or recurrent Grade 2 pneumonitis and consider dose reduction. Permanently discontinue TIVDAK for Grade 3 or 4 pneumonitis. (2.3, 5.4)
- Severe Cutaneous Adverse Reactions: Severe cutaneous adverse reactions, including events of fatal or life-threatening Stevens-Johnson syndrome (SJS), can occur in patients treated with TIVDAK. Immediately withhold TIVDAK for suspected severe cutaneous adverse reactions, including SJS. Permanently discontinue TIVDAK for confirmed Grade 3 or 4 severe cutaneous adverse reactions, including SJS. (2.3, 5.5)
- Embryo-fetal toxicity: TIVDAK can cause fetal harm. Advise of the potential risk to a fetus and to use effective contraception. (5.6, 8.1, 8.3)

ADVERSE REACTIONS

The most common ($\geq 25\%$) adverse reactions, including laboratory abnormalities, were hemoglobin

decreased, peripheral neuropathy, conjunctival adverse reactions, nausea, fatigue, aspartate aminotransferase increased, epistaxis, alopecia, alanine aminotransferase increased, and hemorrhage. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Seagen Inc. at 1-855-4SEAGEN or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

-----**DRUG INTERACTIONS**-----

Strong CYP3A4 Inhibitors: Closely monitor for TIVDAK adverse reactions. (7.1)

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

- Moderate or severe hepatic impairment: Exposure to MMAE and adverse reactions are increased. Avoid use. (8.6)
- Lactation: Advise women not to breastfeed. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 11/2025

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FULL PRESCRIBING INFORMATION

WARNING: OCULAR TOXICITY

- **TIVDAK can cause severe ocular toxicities resulting in changes in vision, including severe vision loss, and corneal ulceration. [see *Warnings and Precautions (5.1)*].**
- **Conduct an ophthalmic exam, including an assessment of ocular symptoms, visual acuity, and slit lamp exam of the anterior segment of the eye prior to initiation of TIVDAK, prior to every cycle for the first nine cycles, and as clinically indicated. [see *Dosage and Administration (2.2)* and *Warnings and Precautions (5.1)*].**
- **Adhere to the required premedication and eye care before, during, and after infusion. [see *Dosage and Administration (2.2)*].**
- **Withhold TIVDAK until improvement and resume, reduce the dose, or permanently discontinue, based on severity [see *Dosage and Administration (2.3)*, *Warnings and Precautions (5.1)*].**

1 INDICATIONS AND USAGE

TIVDAK® is indicated for the treatment of adult patients with recurrent or metastatic cervical cancer with disease progression on or after chemotherapy.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage

The recommended dose of TIVDAK is 2 mg/kg (up to a maximum of 200 mg for patients ≥100 kg) administered as an intravenous infusion over 30 minutes every 3 weeks until disease progression or unacceptable toxicity.

2.2 Premedication and Required Eye Care

Adhere to the following recommendations to reduce the risk of ocular adverse reactions [see *Warnings and Precautions (5.1)*].

- Ophthalmic exam by eye care provider: Conduct an ophthalmic exam prior to initiation of TIVDAK, prior to every cycle for the first nine cycles, and as clinically indicated. The ophthalmic exam should include visual acuity, slit lamp exam of the anterior segment of the eye, and an assessment of normal eye movement.
- Topical corticosteroid eye drops: Instruct patients to administer one drop in each eye prior to each infusion and to continue to administer eye drops in each eye three times daily for 72 hours after each infusion. The initial prescription and all renewals of any corticosteroid medication should be made only after examination with a slit lamp.
- Topical ocular vasoconstrictor drops: Administer in each eye immediately prior to each infusion of TIVDAK.
- Cold packs: Use cooling eye pads during each infusion of TIVDAK.
- Topical lubricating eye drops: Instruct patients to administer for the duration of therapy and for 30 days after the last dose of TIVDAK.
- Contact lenses: Advise patients to avoid wearing contact lenses for the entire duration of therapy unless advised by their eye care provider.

2.3 Dosage Modifications for Adverse Reactions

The recommended TIVDAK dose reduction schedule is provided in Table 1.

Table 1: Dosage Reduction Schedule

	TIVDAK Dose Level
Starting dose	2 mg/kg (up to a maximum of 200 mg for patients ≥ 100 kg)
First dose reduction	1.3 mg/kg (up to a maximum of 130 mg for patients ≥ 100 kg)
Second dose reduction	0.9 mg/kg* (up to a maximum of 90 mg for patients ≥ 100 kg)

* Permanently discontinue in patients who cannot tolerate 0.9 mg/kg

The recommended dose modifications for adverse reactions are provided in Table 2.

Table 2: Dosage Modifications for Adverse Reactions

Adverse Reaction	Severity	Occurrence	TIVDAK Dose Modification
Keratitis* [see <i>Warnings and Precautions (5.1)</i>]	Nonconfluent superficial keratitis	Any	Monitor.
	Confluent superficial keratitis, a corneal epithelial defect, or a 3 line or more loss in best corrected visual	First occurrence	Withhold dose until resolution, or improvement to nonconfluent superficial keratitis,

	acuity		then resume treatment at the next lower dose level.
		Second occurrence	Permanently discontinue.
	Ulcerative keratitis or perforation	Any	Permanently discontinue.
Conjunctival or corneal scarring or symblepharon* <i>[see Warnings and Precautions (5.1)]</i>	Any scarring or symblepharon	Any	Permanently discontinue.
Conjunctivitis and other ocular adverse reactions* <i>[see Warnings and Precautions (5.1)]</i>	Nonconfluent superficial punctate conjunctival defects, mild vasodilation	Any	Monitor.
	Confluent superficial punctate conjunctival defects, moderate to severe vasodilation	First occurrence	Withhold dose until resolution or improvement to nonconfluent superficial punctate conjunctival defects, mild vasodilation, then resume treatment at the same dose.
		Second occurrence	Withhold dose until resolution or improvement to nonconfluent superficial punctate conjunctival defects, mild vasodilation, then resume treatment at the next lower dose level. If no resolution or improvement to nonconfluent superficial punctate conjunctival defects, mild vasodilation, permanently discontinue.
		Third occurrence	Permanently discontinue.
	Conjunctival ulcer, conjunctival	Any	Permanently discontinue.

	neovascularization, or fibrovascular scarring		
Peripheral Neuropathy <i>[see Warnings and Precautions (5.2)]</i>	Grade 2	Any (initial or worsening of pre-existing condition)	Withhold dose until Grade \leq 1, then resume treatment at the next lower dose level.
	Grade 3 or 4	Any	Permanently discontinue.
Hemorrhage <i>[see Warnings and Precautions (5.3)]</i>	Any grade pulmonary or CNS	Any	Permanently discontinue.
	Grade 2 in any other location	Any	Withhold until resolved, then resume treatment at the same dose.
	Grade 3 in any other location	First occurrence	Withhold dose until resolved, then resume treatment at the same dose.
		Second occurrence	Permanently discontinue.
	Grade 4 in any other location	Any	Permanently discontinue.
Pneumonitis <i>[see Warnings and Precautions (5.4)]</i>	Grade 2	Any	Withhold dose until Grade \leq 1 for persistent or recurrent pneumonitis, consider resuming treatment at next lower dose level.
	Grade 3 or 4	Any	Permanently discontinue.
Severe cutaneous adverse reactions (including Stevens-Johnson syndrome (SJS)) <i>[see Warnings and Precautions (5.5)]</i>	Suspected (any grade)	Any	Immediately withhold dose and consult a specialist to confirm the diagnosis.
	Confirmed Grade 3 or 4	Any	Permanently discontinue.

* Refer patients to an eye care provider promptly for an assessment of new or worsening ocular symptoms.

2.4 Instructions for Preparation and Administration

- **Administer TIVDAK as an intravenous infusion only.**
- TIVDAK is a hazardous drug. Follow applicable special handling and disposal procedures¹.
- DO NOT administer TIVDAK as an intravenous push or bolus.

- DO NOT mix TIVDAK with, or administer as an infusion with, other medicinal products.

Use appropriate aseptic technique for reconstitution and preparation of dosing solutions. Prior to administration, the TIVDAK vial is reconstituted with Sterile Water for Injection, USP. The reconstituted solution is subsequently diluted in an intravenous infusion bag containing one of the following: 5% Dextrose Injection USP, 0.9% Sodium Chloride Injection, USP, or Lactated Ringer's Injection, USP.

Reconstitution in Single-dose Vial

1. Calculate the recommended dose based on the patient's weight to determine the number of vials needed.
2. Reconstitute each 40 mg vial with 4 mL of Sterile Water for Injection, USP, resulting in 10 mg/mL TIVDAK.
3. Slowly swirl each vial until the contents are completely dissolved. Allow the reconstituted vial(s) to settle. DO NOT SHAKE THE VIAL. Do not expose to direct sunlight.
4. Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. The reconstituted solution should be clear to slightly opalescent, colorless to brownish-yellow and free of visible particles. Discard any vial with visible particles or discoloration.
5. Based upon the calculated dose amount, the reconstituted solution from the vial(s) should be added to the infusion bag immediately. This product does not contain a preservative. If not used immediately, reconstituted vials may be stored for up to 24 hours in refrigeration at 2°C to 8°C (36 °F to 46 °F) or at room temperature up to 25°C (77°F) for up to a maximum of 8 hours prior to dilution. DO NOT FREEZE. Do not expose to direct sunlight. Discard unused vials with reconstituted solution beyond the recommended storage time.

Dilution in Infusion Bag

1. Withdraw the calculated dose amount of reconstituted solution from the vial(s) and transfer into an infusion bag.
2. Dilute TIVDAK with one of the following: 5% Dextrose Injection, USP, 0.9% Sodium Chloride Injection, USP or Lactated Ringer's Injection, USP. The infusion bag size should allow enough diluent to achieve a final concentration of 0.7 mg/mL to 2.4 mg/mL TIVDAK.
3. Mix diluted solution by gentle inversion. DO NOT SHAKE THE BAG. Do not expose to direct sunlight.
4. Visually inspect the infusion bag for any particulate matter or discoloration prior to use. The reconstituted solution should be clear to slightly opalescent, colorless to brownish-yellow and free of visible particles. Discard the infusion bag if particulate matter or discoloration is observed.
5. Discard any unused portion left in the single-dose vials.

Administration

1. Confirm administration of steroid and vasoconstrictor eye drops [*see Dosage and Administration (2.2)*].

2. Apply cold packs fully over the eyes following administration of the vasoconstrictor eye drops. Change cold packs as needed throughout infusion to ensure eye area remains cold during the entire infusion [see *Dosage and Administration (2.2)*].
3. Immediately administer the infusion over 30 minutes through an intravenous line containing a 0.2 µm in-line filter.
4. If the infusion is not administered immediately, store the diluted TIVDAK solution in refrigeration as specified in Table 3. Discard if storage time exceeds these limits. DO NOT FREEZE. Once removed from refrigeration, complete administration of the diluted infusion solution of TIVDAK within 4 hours (including infusion time).

Table 3: Diluted TIVDAK Solution Refrigeration Storage Conditions

Diluent Used to Prepare Solution for Infusion	Diluted TIVDAK Solution Storage Conditions (Including Infusion Time)
5% Dextrose Injection, USP	Up to 24 hours at 2°C to 8°C (36°F to 46°F)
0.9% Sodium Chloride Injection, USP	Up to 18 hours at 2°C to 8°C (36°F to 46°F)
Lactated Ringer’s Injection, USP	Up to 12 hours at 2°C to 8°C (36°F to 46°F)

3 DOSAGE FORMS AND STRENGTHS

For Injection: 40 mg of tisotumab vedotin-tftv as a white to off-white lyophilized cake or powder in a single-dose vial for reconstitution.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Ocular Adverse Reactions

TIVDAK can cause severe ocular adverse reactions, including conjunctivitis, keratopathy (keratitis, punctate keratitis, and ulcerative keratitis), and dry eye (increased lacrimation, eye pain, eye discharge, pruritus, irritation, and foreign body sensation), that may lead to changes in vision and/or corneal ulceration.

Ocular adverse reactions occurred in 55% of patients with cervical cancer treated with TIVDAK across clinical trials. The most common ocular adverse reactions were conjunctivitis (32%), dry eye (24%), keratopathy (17%), and blepharitis (5%). Grade 3 ocular adverse reactions occurred in 3.3% of patients, including severe ulcerative keratitis in 1.2% of patients. Nine patients (2.1%) experienced ulcerative keratitis (including one with perforation requiring corneal transplantation), six (1.4%) conjunctival ulcer, four (0.9%) corneal erosion, two (0.5%) conjunctival erosion, and two (0.5%) symblepharon.

The median time to onset of the first ocular adverse reaction was 1.2 months (range, 0-

17.1). Of the patients who experienced ocular events, 59% had complete resolution and 31% had partial improvement (defined as a decrease in severity by one or more grades from the worst grade) at last follow up. Ocular adverse reactions led to permanent discontinuation of TIVDAK in 6% of patients with cervical cancer.

In innovaTV 301, 8 (3.2%) patients experienced delayed ocular adverse reactions occurring more than 30 days after discontinuation of TIVDAK. These adverse reactions included 3 patients with ulcerative keratitis, and one patient (each) with keratitis, punctate keratitis and corneal erosion, blepharitis and conjunctival hyperemia, conjunctival scar, and conjunctivitis and xerophthalmia.

Refer patients to an eye care provider to conduct an ophthalmic exam prior to initiation of TIVDAK, prior to every cycle for the first nine cycles, and as clinically indicated. The exam should include visual acuity, slit lamp exam of the anterior segment of the eye, and an assessment of normal eye movement and ocular signs or symptoms which include dry or irritated eyes, eye secretions or blurry vision.

Adhere to the required premedication and eye care before, during, and after infusion to reduce the risk of ocular adverse reactions [see *Dosage and Administration (2.2)*].

Monitor for ocular toxicity and promptly refer patients to an eye care provider for any new or worsening ocular signs and symptoms. Withhold, reduce, or permanently discontinue TIVDAK based on the severity or persistence of the ocular adverse reaction [see *Dosage and Administration (2.3)*].

5.2 Peripheral Neuropathy

Peripheral neuropathy occurred in 39% of patients with cervical cancer treated with TIVDAK across clinical trials; 6% of patients experienced Grade 3 peripheral neuropathy. Peripheral neuropathy adverse reactions included peripheral sensory neuropathy (23%), peripheral neuropathy (5%), paresthesia (3.8%), peripheral sensorimotor neuropathy (3.3%), muscular weakness (2.8%), and peripheral motor neuropathy (2.4%). One patient with another tumor type treated with TIVDAK at the recommended dose developed Guillain-Barre syndrome.

The median time to onset of peripheral neuropathy was 2.4 months (range, 0-11.3). Of the patients who experienced peripheral neuropathy, 18% had complete resolution and 21% had partial improvement (defined as a decrease in severity by one or more grades from the worst grade) at last follow up. Peripheral neuropathy led to discontinuation of TIVDAK in 7% of patients with cervical cancer.

Monitor patients for signs and symptoms of neuropathy, such as paresthesia, tingling or a burning sensation, neuropathic pain, muscle weakness, or dysesthesia. For patients experiencing new or worsening peripheral neuropathy, withhold dose, then dose reduce, or permanently discontinue TIVDAK based on the severity of peripheral neuropathy [see *Dosage and Administration (2.3)*].

5.3 Hemorrhage

Hemorrhage occurred in 51% of patients with cervical cancer treated with TIVDAK across clinical trials. The most common all grade hemorrhage adverse reaction was epistaxis (33%). Grade 3 hemorrhage occurred in 4% of patients.

The median time to onset of hemorrhage was 0.3 months (range, 0-10.4). Of the

patients who experienced hemorrhage, 71% had complete resolution and 12% had partial resolution (defined as a decrease in severity by one or more grades from the worst grade) at last follow-up.

Monitor patients for signs and symptoms of hemorrhage. For patients experiencing pulmonary or CNS hemorrhage, permanently discontinue TIVDAK. For grade ≥ 2 hemorrhage in any other location, withhold until bleeding has resolved, blood hemoglobin is stable, there is no bleeding diathesis that could increase the risk of continuing therapy, and there is no anatomical or pathologic condition that can increase the risk of hemorrhage recurrence. After resolution, either resume treatment or permanently discontinue TIVDAK [see *Dosage and Administration (2.3)*].

5.4 Pneumonitis

Severe, life-threatening, or fatal pneumonitis can occur in patients treated with antibody drug conjugates containing vedotin including TIVDAK. Among patients with cervical cancer treated with TIVDAK across clinical trials, 4 patients (0.9%) experienced pneumonitis, including 1 patient who had a fatal outcome.

Monitor patients for pulmonary symptoms indicative of pneumonitis. Symptoms may include hypoxia, cough, dyspnea or interstitial infiltrates on radiologic exams. Infectious, neoplastic, and other causes for such symptoms should be excluded through appropriate investigations.

Withhold TIVDAK for patients who develop persistent or recurrent Grade 2 pneumonitis and consider dose reduction. Permanently discontinue TIVDAK in all patients with Grade 3 or 4 pneumonitis [see *Dosage and Administration (2.3)*].

5.5 Severe Cutaneous Adverse Reactions

Severe cutaneous adverse reactions, including events of fatal or life-threatening SJS, can occur in patients treated with TIVDAK. Severe cutaneous adverse reactions occurred in 1.6% of patients with cervical cancer treated with TIVDAK across clinical trials. Grade ≥ 3 severe cutaneous adverse reactions occurred in 0.5% of patients, including 1 patient who had a fatal outcome.

Monitor patients for signs or symptoms of severe cutaneous adverse reactions, which include target lesions, worsening skin reactions, blistering or peeling of the skin, painful sores in mouth, nose, throat, or genital area, fever or flu-like symptoms, and swollen lymph nodes. If signs or symptoms of severe cutaneous adverse reactions occur, withhold TIVDAK until the etiology of the reaction has been determined. Early consultation with a specialist is recommended to ensure greater diagnostic accuracy and appropriate management. Permanently discontinue TIVDAK for confirmed Grade 3 or 4 severe cutaneous adverse reactions, including SJS [see *Dosage and Administration (2.3)*].

5.6 Embryo-Fetal Toxicity

Based on the mechanism of action and findings in animals, TIVDAK can cause fetal harm when administered to a pregnant woman. The small molecule component of TIVDAK, MMAE, administered to rats caused adverse developmental outcomes, including embryo-fetal mortality and structural abnormalities, at exposures below those occurring clinically at the recommended dose.

Advise patients of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment with TIVDAK and for 2 months after the last dose. Advise male patients with female partners of reproductive potential to use effective contraception during treatment with TIVDAK and for 4 months after the last dose [see *Use in Specific Populations (8.1, 8.3)*, and *Clinical Pharmacology (12.1)*].

6 ADVERSE REACTIONS

The following serious adverse reactions are described elsewhere in the labeling:

- Ocular Adverse Reactions [see *Boxed Warning, Warnings and Precautions (5.1)*]
- Peripheral Neuropathy [see *Warnings and Precautions (5.2)*]
- Hemorrhage [see *Warnings and Precautions (5.3)*]
- Pneumonitis [see *Warnings and Precautions (5.4)*]
- Severe Cutaneous Adverse Reactions [see *Warnings and Precautions (5.5)*]

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.

The data in the WARNINGS AND PRECAUTIONS section reflect exposure to TIVDAK in 425 patients with recurrent or metastatic cervical cancer who received at least one dose of TIVDAK at 2 mg/kg intravenously every 3 weeks in innovaTV 301, innovaTV 204, innovaTV 201 (NCT02001623), innovaTV 202 (NCT02552121), innovaTV 203 (NCT03245736), and innovaTV 206 (NCT03913741). The median duration of treatment with TIVDAK was 3.7 months (range: 0.4-40.2). In this pooled safety population, the most common ($\geq 25\%$) adverse reactions, including laboratory abnormalities, were hemoglobin decreased (45%), peripheral neuropathy (39%), conjunctival adverse reactions (38%), nausea (37%), fatigue (36%), aspartate aminotransferase increased (33%), epistaxis (33%), alopecia (31%), alanine aminotransferase increased (30%), and hemorrhage (28%).

The data described in this section reflect exposure to TIVDAK from innovaTV 301 and innovaTV 204.

innovaTV 301

The safety of TIVDAK was evaluated in an open-label, randomized study in patients with recurrent or metastatic cervical cancer with disease progression on or after systemic therapy [see *Clinical Studies (14.1)*]. A total of 250 patients received TIVDAK 2 mg/kg every 3 weeks until disease progression or unacceptable toxicity. The median duration of treatment with TIVDAK was 3.7 months (range: 0.4-19).

Serious adverse reactions occurred in 33% of patients receiving TIVDAK. The most common ($\geq 2\%$) serious adverse reactions were urinary tract infection (4.8%), small intestinal obstruction (2.4%), sepsis (2%), abdominal pain (2%), and hemorrhage (2%). Fatal adverse reactions occurred in 1.6% of patients who received TIVDAK, including acute kidney injury (0.4%), pneumonia (0.4%), sepsis (0.4%) and Stevens-Johnson syndrome (0.4%).

Adverse reactions leading to permanent discontinuation occurred in 15% of patients

receiving TIVDAK; the most common ($\geq 3\%$) adverse reactions leading to permanent discontinuation were peripheral neuropathy (6%) and ocular adverse reactions (6%).

Adverse reactions leading to dose interruption occurred in 39% of patients receiving TIVDAK; the most common ($\geq 3\%$) adverse reactions leading to dose interruption were ocular adverse reactions (16%) and peripheral neuropathy (6%).

Adverse reactions leading to dose reduction occurred in 30% of patients receiving TIVDAK; the most common ($\geq 3\%$) adverse reactions leading to dose reduction were peripheral neuropathy (10%) and ocular adverse reactions (10%). The ocular adverse reactions included conjunctival disorders (4.8%), keratopathy (4%), and dry eye (0.8%).

The most common ($\geq 25\%$) adverse reactions, including laboratory abnormalities, in patients receiving TIVDAK were hemoglobin decreased, peripheral neuropathy, conjunctival adverse reactions, aspartate aminotransferase increased, nausea, alanine aminotransferase increased, fatigue, sodium decreased, epistaxis, and constipation.

Table 4 summarizes the all grade and Grade 3-4 adverse reactions from innovaTV 301.

Table 4: Adverse Reactions ($\geq 10\%$) in Patients Who Received TIVDAK in innovaTV 301

Adverse Reaction	TIVDAK		Chemotherapy	
	N=250		N=239	
	All Grades	Grade 3-4	All Grades	Grade 3-4
	%	%	%	%
Nervous system disorders				
Peripheral neuropathy*	38	6	4.2	0.4
Eye disorders				
Conjunctival adverse reactions†	37	0	1.7	0
Corneal adverse reactions‡	21	3.2	0	0
Dry eye§	21	0	1.7	0
Gastrointestinal disorders				
Nausea¶	33	0.4	40	2.1
Constipation	25	1.2	16	0
Diarrhea#	22	1.6	15	1.3
Abdominal Pain ^p	18	4	15	2.5
Vomiting	18	1.6	18	1.3
General				
Fatigue ^ß	28	6	32	6
Pyrexia	17	0.4	21	0.8
Pruritus	10	0.4	2.9	0
Vascular disorders				
Epistaxis	26	0	2.5	0
Hemorrhage ^à	21	2	11	2.5
Metabolism and nutrition disorders				

Decreased appetite	24	0.8	18	0.4
Decreased weight	10	0.4	5	0
Skin and subcutaneous tissue disorders				
Alopecia	24	0	2.9	0
Rash ^è	17	1.6	16	1.3
Infections				
Urinary tract infection ^ð	16	5	18	8

* Peripheral neuropathy includes peripheral sensory neuropathy, paresthesia, muscular weakness, peripheral sensorimotor neuropathy, peripheral motor neuropathy, neurotoxicity, gait disturbance, neuralgia, hypoaesthesia, neuropathy peripheral, and skin burning sensation

† Conjunctival adverse reactions includes conjunctivitis, conjunctivitis bacterial, conjunctivitis viral, episcleritis, ocular hyperemia, conjunctival hemorrhage, conjunctival hyperemia, conjunctival ulcer, conjunctivitis allergic, conjunctival disorder, symblepharon, conjunctival erosion, conjunctival oedema, conjunctivochalasis, and conjunctival scar

‡ Corneal adverse reactions includes keratitis, punctate keratitis, corneal erosion, ulcerative keratitis, corneal degeneration, corneal opacity, and keratopathy

§ Dry eye includes dry eye, eye discharge, eye pruritus, eye pain, eye irritation, and lacrimation increased

¶ Nausea includes nausea and retching

Diarrhea includes diarrhea and gastroenteritis

ρ Abdominal pain includes abdominal pain, abdominal pain upper, abdominal discomfort, and abdominal pain lower

β Fatigue includes fatigue and asthenia

à Hemorrhage includes hematuria, vaginal hemorrhage, rectal hemorrhage, hemoptysis, anal hemorrhage, hemorrhage, gastrointestinal hemorrhage, hemorrhagic shock, lower gastrointestinal hemorrhage, gingival bleeding, tumor hemorrhage, intra-abdominal hemorrhage, gastric hemorrhage, genital hemorrhage, uterine hemorrhage, urinary tract hemorrhage, hemorrhoidal hemorrhage

è Rash includes rash maculo-papular, eczema, rash macular, rash pustular, dermatitis acneiform, erythema, rash, urticaria, dermatitis, and rash erythematous

ð Urinary tract infection includes urinary tract infection, pyelonephritis acute, cystitis, and urinary tract infection bacterial

Clinically relevant adverse reactions in <10% of patients who received TIVDAK in innovaTV 301 include periorbital adverse reactions (9%) and intestinal obstruction (4.4%, including small bowel, large bowel, and malignant gastrointestinal obstruction).

Table 5 summarizes the laboratory abnormalities in innovaTV 301.

Table 5: Select Laboratory Abnormalities (≥10%) That Worsened from Baseline In Patients Who Received TIVDAK in innovaTV 301

	TIVDAK*		Chemotherapy*	
	All Grades (%)	Grades 3 or 4 (%)	All Grades (%)	Grades 3-4 (%)
Hematology				
Hemoglobin decreased	41	7	70	23
Neutrophils decreased	16	3.3	39	17
Chemistry				
Aspartate	34	2.5	32	0.4

aminotransferase increased				
Alanine aminotransferase increased	30	3.3	35	2.6
Sodium decreased	27	0.4	27	0.4
Creatinine increased	23	2	26	2.2
Coagulation				
Activated partial thromboplastin time prolonged	16	1.9	17	0.5

* The denominator used to calculate the rate varied from 206 to 244 based on the number of patients with a baseline value and at least one post-treatment value.

innovaTV 204

The safety of TIVDAK was evaluated in a single arm study in patients (n=101) with recurrent or metastatic cervical cancer with disease progression on or after chemotherapy [see *Clinical Studies (14.1)*]. Patients received TIVDAK 2 mg/kg every 3 weeks until disease progression or unacceptable toxicity. The median duration of treatment was 4.2 months (range: 0.7-16).

Serious adverse reactions occurred in 43% of patients. The most common ($\geq 3\%$) serious adverse reactions were ileus (6%), hemorrhage (5%), pneumonia (4%), peripheral neuropathy, sepsis, constipation, and pyrexia (each 3%). Fatal adverse reactions occurred in 4% of patients who received TIVDAK, including septic shock (1%), pneumonitis (1%), sudden death (1%), and multisystem organ failure (1%).

Adverse reactions leading to permanent discontinuation occurred in 13% of patients receiving TIVDAK; the most common ($\geq 3\%$) adverse reactions leading to permanent discontinuation were peripheral neuropathy (5%) and corneal adverse reactions (4%).

Adverse reactions leading to dose interruption occurred in 47% of patients; the most ($\geq 3\%$) common adverse reactions leading to dose interruption were peripheral neuropathy (8%), conjunctival adverse reactions (4%), and hemorrhage (4%).

Adverse reactions leading to dose reduction occurred in 23% of patients; the most common ($\geq 3\%$) adverse reactions leading to dose reduction were conjunctival adverse reactions (9%) and corneal adverse reactions (8%).

The most common ($\geq 25\%$) adverse reactions, including laboratory abnormalities, were hemoglobin decreased, fatigue, lymphocytes decreased, nausea, peripheral neuropathy, alopecia, epistaxis, conjunctival adverse reactions, hemorrhage, leukocytes decreased, creatinine increased, dry eye, prothrombin international normalized ratio increased, activated partial thromboplastin time prolonged, diarrhea, and rash.

Table 6 summarizes the all grade and Grade 3-4 adverse reactions from innovaTV 204.

Table 6: Adverse Reactions ($\geq 10\%$) in Patients Who Received TIVDAK in innovaTV 204

Adverse Reaction	TIVDAK	
	N=101	
	All Grades %	Grade 3-4 %
General		
Fatigue*	50	7
Pyrexia	16	1
Pruritus	13	1
Gastrointestinal disorders		
Nausea†	41	0
Diarrhea‡	25	2
Constipation	23	2
Abdominal pain§	23	1
Vomiting	17	2
Nervous system disorders		
Peripheral neuropathy¶	39	7
Skin and subcutaneous tissue disorders		
Alopecia	39	0
Rash#	25	0
Vascular disorders		
Epistaxis	39	0
Hemorrhage ^b	32	6
Eye disorders		
Conjunctival adverse reactions ^β	37	0
Dry eye ^à	29	0
Corneal adverse reactions ^è	21	3
Periorbital adverse reactions ^ð	16	0
Musculoskeletal and connective tissue disorders		
Myalgia ^ø	21	0
Arthralgia	16	0
Pain in extremity ^ý	13	1
Metabolism and nutrition disorders		
Decreased appetite	16	1
Infections		
Urinary tract infection [£]	14	2
Investigations		
Weight decreased	12	0

* Fatigue includes fatigue and asthenia

† Nausea includes nausea and retching

‡ Diarrhea includes diarrhea, gastroenteritis, and colitis

§ Abdominal pain includes abdominal pain, abdominal pain upper, abdominal pain lower, abdominal distention and abdominal discomfort

¶ Peripheral neuropathy includes neuropathy peripheral, peripheral sensorimotor neuropathy, polyneuropathy, peripheral sensory neuropathy, paresthesia, hypoesthesia, burning sensation, neuralgia, sensory loss, peripheral motor neuropathy, muscular weakness, gait disturbance, and hyperesthesia

- # Rash includes rash, rash maculo-papular, rash macular, dermatitis acneiform, dermatitis allergic, and erythema
- ρ Hemorrhage includes vaginal hemorrhage, hematuria, rectal hemorrhage, cystitis hemorrhagic, lower gastrointestinal hemorrhage, urinary bladder hemorrhage, hematochezia, anal hemorrhage, gingival bleeding, post procedural hemorrhage, radiation associated with hemorrhage, metrorrhagia, large intestinal hemorrhage, paranasal sinus hemorrhage, and hemoptysis
- β Conjunctival adverse reactions includes conjunctivitis, conjunctival abrasion, conjunctival erosion, conjunctival hyperemia, conjunctival scar, noninfective conjunctivitis, ocular hyperemia, and conjunctival hemorrhage
- à Dry eye includes dry eye and lacrimation increased
- è Corneal adverse reactions includes keratitis, punctate keratitis, ulcerative keratitis, corneal erosion, corneal scar, keratopathy, and corneal bleeding
- ø Periorbital adverse reactions includes blepharitis, meibomianitis, eye pruritus, entropion, trichiasis, chalazion, and meibomian gland dysfunction
- ∅ Myalgia includes myalgia, musculoskeletal discomfort, and musculoskeletal pain
- ý Pain in extremity includes pain in extremity and limb discomfort
- £ Urinary tract infection includes urinary tract infection, urinary tract infection bacterial, and cystitis

Clinically relevant adverse reactions in <10% of patients who received TIVDAK in innovaTV 204 included venous thrombosis (3%), pulmonary embolism (3%), and pneumonitis (2%).

Table 7 summarizes the laboratory abnormalities in innovaTV 204.

Table 7: Select Laboratory Abnormalities (≥10%) That Worsened from Baseline In Patients Who Received TIVDAK in innovaTV 204

Laboratory Abnormality	TIVDAK*	
	All Grades (%)	Grade 3 or 4 (%)
Hematology		
Hemoglobin decreased	52	7
Neutrophils decreased	21	3
Chemistry		
Creatinine increased	29	4.1
Alanine aminotransferase increased	24	0
Aspartate aminotransferase increased	18	0
Sodium decreased	20	0
Alkaline phosphatase increased	17	0
Creatinine kinase increased	16	2.1
Magnesium decreased	17	2.1
Coagulation		
Prothrombin international normalized ratio increased	26	0
Activated partial thromboplastin time prolonged	26	2

* The denominator used to calculate the rate varied from 96 to 101 based on the number of patients with a baseline value and at least one post-treatment value.

7 DRUG INTERACTIONS

7.1 Effects of Other Drugs on TIVDAK

Strong CYP3A4 Inhibitors

MMAE is a CYP3A4 substrate. Concomitant use of TIVDAK with strong CYP3A4 inhibitors may increase unconjugated MMAE exposure [see *Clinical Pharmacology (12.3)*], which may increase the risk of TIVDAK adverse reactions. Closely monitor patients for adverse reactions of TIVDAK when used concomitantly with strong CYP3A4 inhibitors.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Based on the mechanism of action and findings in animals, TIVDAK can cause fetal harm when administered to a pregnant woman [see *Clinical Pharmacology (12.1)*]. There are no available human data on TIVDAK use in pregnant women to inform a drug-associated risk. In an animal reproduction study, administration of the small molecule component of TIVDAK, MMAE, to pregnant rats during organogenesis caused embryo-fetal mortality and structural abnormalities at exposures below the clinical exposure at the recommended dose (see *Data*). Advise patients of the potential risk to a fetus.

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

Data

Animal Data

No embryo-fetal development studies in animals have been performed with tisotumab vedotin-tftv. In an embryo-fetal development study in pregnant rats, administration of two intravenous doses of MMAE, the small molecule component of TIVDAK, on gestational days 6 and 13 caused embryo-fetal mortality and structural abnormalities, including protruding tongue, malrotated limbs, gastroschisis, and agnathia compared to controls at a dose of 0.2 mg/kg (approximately 0.5-fold the human area under the curve [AUC] at the recommended dose).

8.2 Lactation

Risk Summary

There are no data on the presence of tisotumab vedotin-tftv in human milk, the effects on the breastfed child, or the effects on milk production. Because of the potential for serious adverse reactions in a breastfed child, advise lactating women not to breastfeed during treatment with TIVDAK and for 3 weeks after the last dose.

8.3 Females and Males of Reproductive Potential

TIVDAK 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 TIVDAK treatment.

Contraception

Females

Advise females of reproductive potential to use effective contraception during treatment with TIVDAK and for 2 months after the last dose.

Males

Advise male patients with female partners of reproductive potential to use effective contraception during treatment with TIVDAK and for 4 months after the last dose.

Infertility

Females

Based on findings in animal studies with MMAE-containing antibody-drug conjugates (ADCs), TIVDAK may impair female fertility. The effect on fertility is reversible [see *Nonclinical Toxicology (13.1)*].

Males

Based on findings from animal studies, TIVDAK may impair male fertility [see *Nonclinical Toxicology (13.1)*].

8.4 Pediatric Use

Safety and effectiveness of TIVDAK in pediatric patients have not been established.

Nonclinical studies of tisotumab vedotin-tftv suggest a lack of anti-tumor activity and penetrance to brain based on limited in vivo data from tissue factor (TF)-expressing subcutaneous or orthotopic pediatric models of high-grade gliomas/glioblastomas (HGG/GBM) and diffuse intrinsic pontine glioma (DIPG).

8.5 Geriatric Use

Of the 425 patients with cervical cancer treated with TIVDAK across clinical trials, 14% were ≥ 65 years of age and 2.4% were ≥ 75 years of age. Grade ≥ 3 adverse reactions occurred in 60% of patients ≥ 65 years and in 55% of patients < 65 years. Drug was discontinued due to an adverse reaction in 25% of patients ≥ 65 years and in 13% of patients < 65 years. Clinical studies of TIVDAK did not include sufficient numbers of patients 65 years of age and older to determine whether they respond differently from younger patients.

8.6 Hepatic Impairment

Avoid use of TIVDAK in patients with moderate or severe hepatic impairment [aspartate aminotransferase (AST) $> 3 \times$ upper limit of normal (ULN) or total bilirubin $> 1.5 \times$ ULN] [see *Clinical Pharmacology (12.3)*].

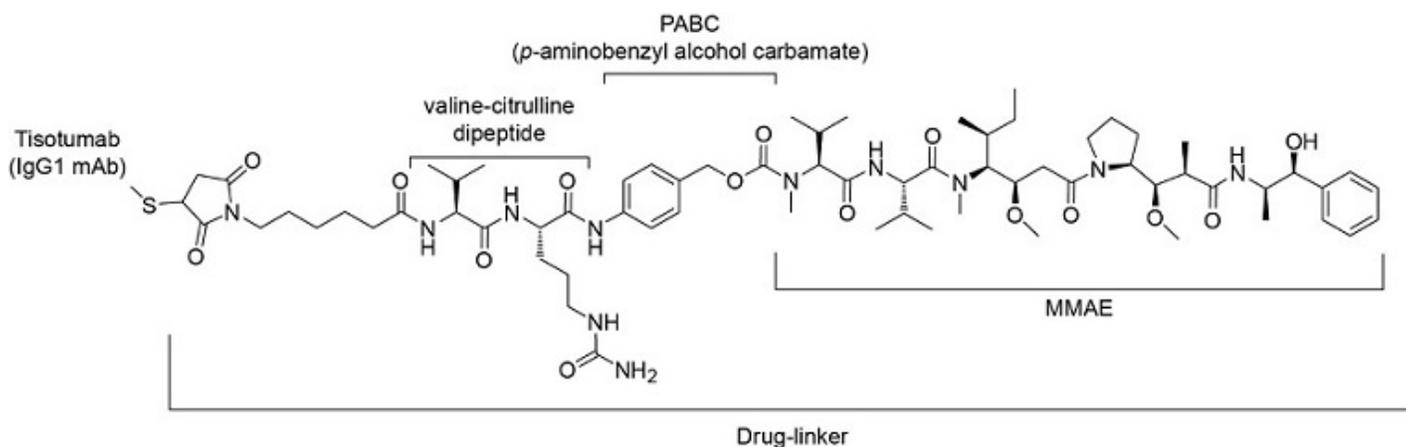
In patients with mild hepatic impairment (total bilirubin \leq ULN and AST $>$ ULN or total

bilirubin > 1 to 1.5 × ULN and any AST), closely monitor patients for adverse reactions of TIVDAK, but no dosage adjustment in the starting dose of TIVDAK is recommended.

11 DESCRIPTION

Tisotumab vedotin-tftv is a Tissue Factor (TF) directed antibody drug conjugate (ADC) comprised of a human anti-TF IgG1-kappa antibody conjugated to the microtubule-disrupting agent monomethyl auristatin E (MMAE) via a protease-cleavable vc (valine-citrulline) linker. The monoclonal antibody is produced in a mammalian cell line (Chinese hamster ovary). MMAE and the linker are produced by chemical synthesis. Each monoclonal antibody molecule carries an average of 4 MMAE molecules. Tisotumab vedotin-tftv has an approximate molecular weight of 153 kDa. The chemical structure is as follows:

Figure 1. Structural Formula



TIVDAK (tisotumab vedotin-tftv) for injection, is provided as a sterile, preservative-free, white to off-white lyophilized cake or powder in a single-dose vial for infusion after dilution. Following reconstitution with 4 mL of Sterile Water for Injection, a clear to slightly opalescent, colorless to brownish-yellow solution containing 10 mg/mL tisotumab vedotin-tftv is produced [see *Dosage and Administration* (2.3)]. Each mL of reconstituted solution contains 10 mg of tisotumab vedotin-tftv, d-mannitol (30 mg), L-histidine (2.11 mg), L-histidine monohydrochloride (3.44 mg), and sucrose (30 mg), at pH 6.0.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Tisotumab vedotin-tftv is a tissue factor (TF)-directed antibody drug conjugate (ADC). The antibody is a human IgG1 directed against cell surface TF. TF is the primary initiator of the extrinsic blood coagulation cascade. The small molecule, MMAE, is a microtubule-disrupting agent, attached to the antibody via a protease-cleavable linker. Nonclinical data suggests that the anticancer activity of tisotumab vedotin-tftv is due to the binding of the ADC to TF expressing cancer cells, followed by internalization of the ADC-TF complex, and release of MMAE via proteolytic cleavage. MMAE disrupts the microtubule

network of actively dividing cells, leading to cell cycle arrest and apoptotic cell death. In vitro, tisotumab vedotin-tftv also mediates antibody-dependent cellular phagocytosis and antibody-dependent cellular cytotoxicity.

12.2 Pharmacodynamics

Tisotumab vedotin-tftv exposure-response relationships and the time course of pharmacodynamics response have not been fully characterized.

Cardiac Electrophysiology

At the recommended dose, tisotumab vedotin-tftv had no large mean effect on QTc prolongation (>20 msec).

12.3 Pharmacokinetics

Table 8 summarizes the exposure parameters of tisotumab vedotin-tftv and unconjugated MMAE (the cytotoxic component of tisotumab vedotin-tftv) following administration of one 3-week cycle of tisotumab vedotin-tftv 2 mg/kg to patients. Tisotumab vedotin-tftv concentrations peaked near the end of the infusion, while unconjugated MMAE concentrations peaked approximately 2 to 3 days after tisotumab vedotin-tftv dosing. Tisotumab vedotin-tftv C_{max} increased proportionally, while AUC_{0-last} increased in a more than dose-proportional manner, after a single dose ranging from 0.3–2.2 mg/kg (0.15 to 1.1 times the approved recommended dose). There was no accumulation of tisotumab vedotin-tftv and unconjugated MMAE. Steady-state concentrations of tisotumab vedotin-tftv and unconjugated MMAE were reached after 1 treatment cycle.

Table 8. Exposure Parameters of Tisotumab Vedotin-tftv and Unconjugated MMAE

	Tisotumab Vedotin-tftv Mean (± SD)	Unconjugated MMAE Mean (± SD)
C_{max}	40.8 (8.12) µg/mL	5.91 (4.2) ng/mL
AUC	57.5 (13.4) day*µg/mL	50 (35.8) day*ng/mL

C_{max} =maximum concentration, AUC = area under the concentration-time curve from time 0 to 21 days (3 weeks)

Distribution

The tisotumab vedotin-tftv steady state volume of distribution is 7.83 (%CV: 19.1) L. Plasma protein binding of MMAE ranged from 68% to 82%, in vitro.

Elimination

The median terminal half-life of tisotumab vedotin-tftv and unconjugated MMAE is 4.04 (range: 2.26-7.25) days and 2.56 (range: 1.81-4.10) days, respectively. The linear clearance of tisotumab vedotin-tftv and unconjugated MMAE was 1.54 (%CV: 28.8) L/day and 45.9 (%CV: 61.1) L/day, respectively. Elimination of MMAE appeared to be limited by its rate of release from tisotumab vedotin-tftv.

Metabolism

Tisotumab vedotin-tftv is expected to undergo catabolism to small peptides, amino acids, unconjugated MMAE, and unconjugated MMAE-related catabolites. Tisotumab vedotin-tftv releases unconjugated MMAE via proteolytic cleavage, and unconjugated MMAE is primarily metabolized by CYP3A4 in vitro.

Excretion

The excretion of tisotumab vedotin-tftv is not fully characterized. Following a single-dose of another ADC that contains MMAE, 17% of the total MMAE administered was recovered in feces and 6% in urine over a 1-week period, primarily as unchanged drug. A similar excretion profile of MMAE is expected after tisotumab vedotin-tftv administration.

Specific Populations

No clinically significant differences in the pharmacokinetics of tisotumab vedotin-tftv were observed based on age (21 to 81 years), sex, race (white vs non-white) or ethnicity (Hispanic or Latino vs non-Hispanic or non-Latino). No clinically significant differences in exposures of tisotumab vedotin-tftv and unconjugated MMAE were observed in patients with mild to moderate renal impairment (CL_{cr} 30 to < 90 mL/min using the Cockcroft-Gault equation) compared to patients with normal renal function. The effect of severe renal impairment (CL_{cr} 15 to < 30 mL/min) or end-stage renal disease with or without dialysis on pharmacokinetics of tisotumab vedotin-tftv and unconjugated MMAE is unknown.

Patients with Hepatic Impairment

Unconjugated MMAE exposures were 37% higher, but there were no clinically significant differences in exposures of tisotumab vedotin-tftv in patients with mild hepatic impairment compared to patients with normal hepatic function. The effect of moderate or severe hepatic impairment or liver transplantation on the pharmacokinetics of tisotumab vedotin-tftv or unconjugated MMAE is unknown.

Drug Interaction Studies

Clinical Studies

No clinical studies evaluating the drug-drug interaction potential of tisotumab vedotin-tftv have been conducted. To characterize the drug-drug interaction potential of unconjugated MMAE, clinical studies with another ADC that contains MMAE are described below, and similar effects on tisotumab vedotin-tftv and unconjugated MMAE exposures are expected with concomitant use of TIVDAK.

There were no clinically significant differences in midazolam (sensitive CYP3A4 substrate) pharmacokinetics when used concomitantly with another ADC that contains MMAE.

Strong CYP3A4 Inhibitors: Ketoconazole (strong CYP3A4 inhibitor) used concomitantly with another ADC that contains MMAE increased unconjugated MMAE C_{max} by 25% and AUC by 34%, with no change in ADC exposure.

Strong CYP3A4 Inducers: Rifampin (strong CYP3A4 inducer) used concomitantly with another ADC that contains MMAE decreased unconjugated MMAE C_{max} by 44% and AUC by 46%, with no change in ADC exposure.

In Vitro Studies

Cytochrome P450 (CYP) Enzymes: MMAE does not inhibit CYP1A2, CYP2B6, CYP2C8,

CYP2C9, CYP2C19, or CYP2D6. MMAE did not induce any major CYP450 enzymes in human hepatocytes.

Transporter Systems: MMAE is a substrate of P-glycoprotein (P-gp), but not an inhibitor of P-gp.

12.6 Immunogenicity

The observed incidence of anti-drug antibodies (ADA) is highly dependent on the sensitivity and specificity of the assay. Differences in assay methods preclude meaningful comparisons of the incidence of ADA in the studies described below with the incidence of ADA in other studies, including those of TIVDAK or of other tisotumab vedotin products.

In patients with recurrent or metastatic cervical cancer who were treated with TIVDAK 2 mg/kg every 3 weeks for up to 19 months (innovaTV 301) and 40 months (innovaTV 204), the incidence of anti-tisotumab vedotin-tftv antibody formation was 5.7% (12/211) and 5.4% (5/93), respectively. The incidence of neutralizing anti-tisotumab vedotin-tftv antibody formation was 0% (0/211) in innovaTV 301 using cell-based assay, and the incidence was 2.2% (2/93) in innovaTV 204 using Enzyme-linked Immunosorbent Assay (ELISA)-based assay. Given the low number of patients who developed anti-tisotumab vedotin-tftv antibodies, no conclusions can be drawn concerning a potential effect of immunogenicity on pharmacokinetics, efficacy or safety.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenicity studies in animals have not been performed with tisotumab vedotin-tftv or MMAE.

MMAE was positive for genotoxicity in the in vivo rat bone marrow micronucleus study through an aneugenic mechanism. MMAE was not mutagenic in the bacterial reverse mutation (Ames) assay or the L5178 TK^{+/-} mouse lymphoma forward mutation assay.

Fertility studies with tisotumab vedotin-tftv or MMAE have not been conducted. However, results of a repeat-dose toxicity study in monkeys indicate the potential for tisotumab vedotin-tftv to impair male reproductive function and fertility.

In a repeat-dose toxicology study conducted in monkeys for 13 weeks, doses ≥ 1 mg/kg tisotumab vedotin-tftv (≥ 0.6 times the human exposure [AUC] at the recommended dose) resulted in decreased testicular size and seminiferous tubule atrophy, reduction or absence in sperm count, and decreased sperm motility. Findings of sperm absence and decreased motility did not reverse by the end of the recovery period at doses ≥ 3 mg/kg (≥ 1.7 times the human exposure [AUC] at the recommended dose).

MMAE-containing ADCs have been associated with adverse ovarian effects when administered to sexually immature animals. Adverse effects included decrease in, or absence of, secondary and tertiary ovarian follicles after weekly administration to cynomolgus monkeys in studies of 4-week duration. These effects showed a trend towards recovery 6 weeks after the end of dosing; no changes were observed in primordial follicles.

14 CLINICAL STUDIES

14.1 Recurrent or Metastatic Cervical Cancer

innovaTV 301

The efficacy of TIVDAK was evaluated in innovaTV 301 (NCT04697628), an open-label, active-controlled, multicenter, randomized trial that enrolled 502 patients with recurrent or metastatic cervical cancer who had received one or two prior systemic therapy regimens in the recurrent or metastatic setting, including chemotherapy with or without bevacizumab and/or an anti-PD-(L)1 agent. Patients were excluded if they had active ocular surface disease, any prior episode of cicatricial conjunctivitis or ocular SJS, Grade ≥ 2 peripheral neuropathy, or clinically significant bleeding issues or risks.

Patients were randomized (1:1) to receive either TIVDAK 2 mg/kg intravenously every 3 weeks (n=253) or investigator's choice of chemotherapy (n=249) consisting of topotecan, vinorelbine, gemcitabine, irinotecan or pemetrexed, until unacceptable toxicity or disease progression. Randomization was stratified by prior treatment with bevacizumab (yes or no), prior anti-PD-(L)1 therapy (yes or no), region (US, Europe, or Other), and ECOG performance status (0 or 1).

Patients were treated until disease progression or unacceptable toxicity. Tumor response assessments were performed every 6 weeks for the first 30 weeks and every 12 weeks thereafter.

The major efficacy outcome measure was overall survival (OS). Additional efficacy outcome measures were progression free survival (PFS) and confirmed objective response rate (ORR) as assessed by investigator using RECIST v1.1.

The median age was 50 years (range: 26 to 80); 49% were White, 36% were Asian, 10% were not reported, 3% were American Indian or Alaskan Native, and 2% were Black; 20% were Hispanic/Latino; and baseline ECOG performance status was 0 (54%) or 1 (46%). Sixty-three percent of patients had squamous cell carcinoma, 32% had adenocarcinoma, and 5% had adenosquamous histology. Ninety percent of patients had extrapelvic disease; 61% of patients had received 1 prior line of systemic therapy, and 38% had 2 prior lines of systemic therapy. All patients received prior chemotherapy; 64% received prior bevacizumab and 27% received prior anti-PD-1 or anti-PD-L1 therapy. Patients on the control arm received gemcitabine (44%), pemetrexed (32%), topotecan (8%), vinorelbine (7%), or irinotecan (6%).

Statistically significant improvements in OS, PFS, and ORR were demonstrated for TIVDAK compared with chemotherapy.

Table 9 and Figure 2 summarize the efficacy results from innovaTV 301.

Table 9. Efficacy Results in innovaTV 301

Endpoint	TIVDAK N=253	Chemotherapy N=249
Overall Survival		
Number (%) of patients with events	123 (48.6)	140 (56.2)
Median in months (95% CI)	11.5 (9.8, 14.9)	9.5 (7.9, 10.7)

Hazard ratio (95% CI)	0.70 (0.54, 0.89)	
p-value	0.0038*	
Progression Free Survival		
Number (%) of patients with events	198 (78.3)	194 (77.9)
Median in months (95% CI)	4.2 (4.0, 4.4)	2.9 (2.6, 3.1)
Hazard ratio (95% CI)	0.67 (0.54, 0.82)	
p-value	<0.0001†	
Confirmed Objective Response Rate (CR + PR)		
ORR (%) (95% CI)	17.8 (13.3, 23.1)	5.2 (2.8, 8.8)
p-value	<0.0001‡	
Complete response rate (%)	2.4	0
Partial response rate (%)	15.4	5.2

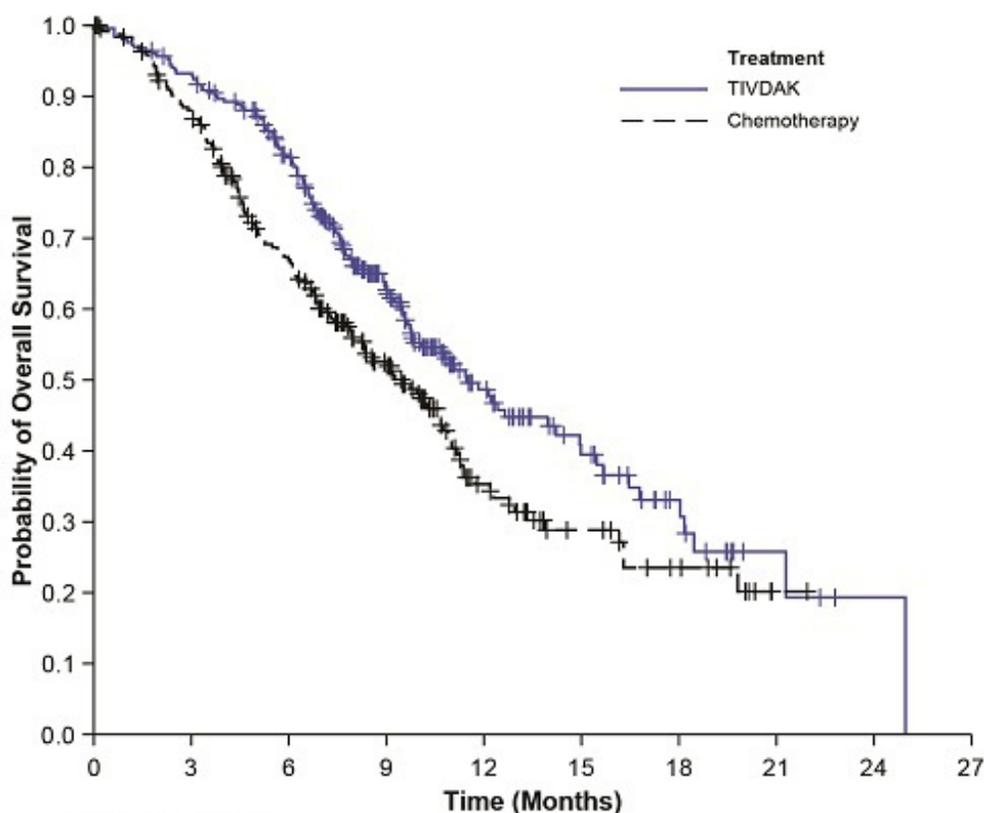
CI: confidence interval

* Based on a stratified log-rank test. The threshold for statistical significance is 0.0226 (2-sided)

† Based on a stratified log-rank test. The threshold for statistical significance is 0.0453 (2-sided)

‡ Based on CMH test. The threshold for statistical significance is 0.05 (2-sided)

Figure 2. Kaplan Meier Plot of Overall Survival



Subjects at Risk

TIVDAK	253	234	191	109	52	29	14	4	1	0
Chemotherapy	249	212	150	87	37	19	11	1	0	0

innovaTV 204

The efficacy of TIVDAK was evaluated in innovaTV 204 (NCT03438396), an open-label, multicenter, single-arm trial that treated 101 patients with recurrent or metastatic

cervical cancer who had received no more than two prior systemic regimens in the recurrent or metastatic setting, including at least one prior platinum-based chemotherapy regimen. Patients were excluded if they had active ocular surface disease, any prior episode of cicatricial conjunctivitis or ocular SJS, Grade ≥ 2 peripheral neuropathy or known coagulation defects leading to an increased risk of bleeding.

Patients received TIVDAK 2 mg/kg intravenously every 3 weeks until disease progression or unacceptable toxicity. Tumor response assessments were performed every 6 weeks for the first 30 weeks and every 12 weeks thereafter.

The median age was 50 years (range: 31 to 78); 95% were White, 2% were Asian, and 1% were Black. Six percent of patients were Hispanic or Latino. Sixty-eight percent of patients had squamous cell carcinoma, 27% had adenocarcinoma, and 5% had adenosquamous histology. ECOG performance status was 0 (58%) or 1 (42%). Seventy percent of patients had received 1 prior line of systemic therapy, and 30% had 2 prior lines of systemic therapy. Sixty-nine percent of patients previously received bevacizumab as part of their prior systemic therapy. Sixty-three percent received bevacizumab in combination with chemotherapy (paclitaxel and cisplatin or carboplatin, or paclitaxel and topotecan) as first-line therapy.

The major efficacy outcome measures were confirmed objective response rate (ORR) as assessed by an independent review committee (IRC) using RECIST v1.1 criteria and duration of response (DOR).

Efficacy results are presented in Table 10.

Table 10. Efficacy Results in innovaTV 204 by IRC

Endpoint	N=101
Confirmed ORR	24%
(95% CI)	(15.9, 33.3)
Complete response rate	7%
Partial response rate	17%
Duration of Response	
Median Duration of Response, months*	8.3
(95% CI)	(4.2, NR)

CI: confidence interval

NR: not reached

* Based on patients (n=24) with a response by IRC

15 REFERENCES

1. "OSHA Hazardous Drugs." OSHA.
<http://www.osha.gov/SLTC/hazardousdrugs/index.html>

16 HOW SUPPLIED/STORAGE AND HANDLING

How Supplied

TIVDAK (tisotumab vedotin-tftv) is supplied as a white to off-white lyophilized cake or powder in a 40 mg single-dose vial for reconstitution. TIVDAK vials are available in the following packages:

- Carton of one 40 mg single-dose vial [NDC 51144-003-01]

Storage

Store TIVDAK vials refrigerated at 2°C to 8°C (36°F to 46°F) in the original carton to protect from light. Do not freeze. Do not shake.

Special Handling

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

17 PATIENT COUNSELING INFORMATION

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

Ocular Adverse Reactions

- Inform patients about the eye exam they will receive with an eye care provider before starting TIVDAK, before each of the first nine cycles and as clinically indicated *[see Warnings and Precautions (5.1)]*.
- Inform patients about the ocular signs or symptoms the eye care provider will review before each cycle *[see Warnings and Precautions (5.1)]*.
- Inform patients that ocular adverse reactions may occur during treatment with TIVDAK and to contact their healthcare provider if they experience new or worsening ocular signs and symptoms *[see Warnings and Precautions (5.1)]*.
- Instruct patients to bring their eye drops to each infusion and advise on how to administer the eye drops throughout treatment *[see Dosage and Administration (2.2) and Warnings and Precautions (5.1)]*.
- Inform patients to avoid wearing contact lenses during treatment unless directed by an eye care provider *[see Dosage and Administration (2.2)]*.

Peripheral Neuropathy

- Advise patients to report to their healthcare provider any numbness and tingling of the hands or feet or muscle weakness *[see Warnings and Precautions (5.2)]*.

Hemorrhage

- Instruct patients to contact their healthcare provider to seek immediate medical attention for signs or symptoms of unusual severe bleeding or hemorrhage *[see Warnings and Precautions (5.3)]*.

Pneumonitis

- Advise patients to immediately report new or worsening respiratory symptoms *[see Warnings and Precautions (5.4)]*.

Severe Cutaneous Adverse Reactions

- Inform patients of the signs and symptoms of severe cutaneous adverse reactions, including life-threatening and potentially fatal SJS, which include target lesions, worsening skin reactions, blistering or peeling of the skin, painful sores in mouth, nose, throat, or genital area, fever or flu-like symptoms, and swollen lymph nodes [see *Warnings and Precautions (5.5)*].
- Instruct patients to contact their healthcare provider to seek immediate medical attention for signs or symptoms of severe cutaneous adverse reactions, including SJS [see *Warnings and Precautions (5.5)*].

Embryo-Fetal Toxicity

- Advise pregnant women and females of reproductive potential of the potential risk to the fetus. Advise patients to inform their healthcare providers of a known or suspected pregnancy [see *Warnings and Precautions (5.6) and Use in Specific Populations (8.1)*].
- Advise females of reproductive potential to use effective contraception during treatment and for 2 months after the last dose. Advise male patients with female partners of reproductive potential to use effective contraception during treatment and for 4 months after the last dose [see *Use in Specific Populations (8.1, 8.3)*].

Lactation

- Advise women not to breastfeed during treatment with TIVDAK and for 3 weeks after the last dose [see *Use in Specific Populations (8.2)*].

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and
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Plainsboro, NJ 08536

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MEDICATION GUIDE

MEDICATION GUIDE
TIVDAK (TIV-dack)
(tisotumab vedotin-tftv)
for injection, for intravenous use

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

TIVDAK can cause serious side effects, including:

Eye problems. Eye problems are common with TIVDAK, and can also be severe. TIVDAK can cause changes to the surface of your eye that can lead to dry eyes, eye redness, eye irritation, corneal ulcers, blurred vision, and severe vision loss. **Tell your healthcare provider if you develop new or worsening vision changes or eye problems during treatment with TIVDAK.**

- Your healthcare provider will send you to an eye specialist to check your eyes before you start treatment with TIVDAK, before each infusion for your first 9 infusions of TIVDAK, and as needed for any new or worsening signs or symptoms of eye problems.
- Your healthcare provider will ask if you have any signs or symptoms of eye problems before each infusion. You will be referred to an eye specialist for any new or worsening signs or symptoms of eye problems.
- Your healthcare provider will prescribe 3 different types of eye drops before you start treatment with TIVDAK. **Bring the eye drops with you to each infusion and use them as directed by your healthcare provider to reduce your risk of eye problems:**
 - Use 1 drop of steroid eye drops in each eye before each infusion and continue to use your eye drops 3 times a day for 3 days after each infusion.
 - Use vasoconstrictor eye drops right before each infusion.
 - Use lubricating eye drops throughout treatment and for 30 days after your last dose of TIVDAK.
- **Do not** wear contact lenses throughout your treatment with TIVDAK unless you are told to use them by your eye specialist.

See **“What are the possible side effects of TIVDAK?”** for more information about side effects.

What is TIVDAK?

TIVDAK is a prescription medicine used to treat adults with cervical cancer:

- that has returned or has spread to other parts of the body, **and**
- who have received chemotherapy that did not work or is no longer working.

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

Before receiving TIVDAK, tell your healthcare provider about all of your medical conditions, including if you:

- have a history of vision or eye problems
- have numbness or tingling in your hands or feet
- have bleeding problems
- have liver problems
- are pregnant or plan to become pregnant. TIVDAK can harm your unborn baby. Tell your healthcare provider right away if you become pregnant or think you may be pregnant during treatment with TIVDAK.

Females who are able to become pregnant:

- Your healthcare provider should do a pregnancy test before you start treatment with TIVDAK.

- o You should use an effective birth control during treatment and for 2 months after your last dose of TIVDAK.

Males with female partners who are able to become pregnant:

- o You should use an effective birth control during treatment and for 4 months after your last dose of TIVDAK.
- are breastfeeding or plan to breastfeed. It is not known if TIVDAK passes into your breast milk. Do not breastfeed during treatment and for 3 weeks after your last dose of TIVDAK.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Taking TIVDAK with certain other medicines may cause side effects.

How will I receive TIVDAK?

- TIVDAK will be given to you by intravenous (IV) infusion into your vein over 30 minutes.
- TIVDAK is usually given every 3 weeks.
- Your healthcare provider will decide how many infusions you need.
- Your healthcare provider will put cold packs on your eyes during each infusion.
- Your healthcare provider may decrease your dose, temporarily stop, or completely stop treatment with TIVDAK if you have side effects.

What are the possible side effects of TIVDAK?

TIVDAK can cause serious side effects, including:

- See **“What is the most important information I should know about TIVDAK?”**
- **Peripheral neuropathy.** Nerve problems called peripheral neuropathy are common with TIVDAK, and can also be serious. Tell your healthcare provider right away if you get numbness or tingling in your hands or feet or muscle weakness.
- **Bleeding (hemorrhage).** Bleeding problems are common with TIVDAK, and can also be serious. Tell your healthcare provider or get medical help right away if you get signs or symptoms of bleeding during treatment with TIVDAK, including:
 - o blood in your stools or black stools (looks like tar)
 - o blood in your urine
 - o cough up or vomit blood
 - o unusual vaginal bleeding
 - o any unusual or heavy bleeding
- **Lung problems.** TIVDAK may cause severe or life-threatening inflammation of the lungs that can lead to death. Tell your healthcare provider right away if you get new or worsening symptoms, including trouble breathing, shortness of breath, or cough.
- **Severe skin reactions.** TIVDAK may cause severe or life-threatening skin reactions that can lead to death. Tell your healthcare provider or get medical help right away if you get signs or symptoms of a severe skin reaction during treatment with TIVDAK, including:

- o skin reactions that look like rings (target lesions)
- o rash or itching that continues to get worse
- o blistering or peeling of the skin
- o painful sores or ulcers in your mouth, nose, throat, or genital area
- o fever or flu-like symptoms
- o swollen lymph nodes

The most common side effects of TIVDAK include:

- decreased red blood cell counts
- numbness or tingling in your hands or feet
- eye problems (conjunctival disorders)
- nausea
- tiredness
- changes in liver function blood tests
- nosebleed
- hair loss (alopecia)
- bleeding (hemorrhage)

TIVDAK may cause fertility problems in females and males, which may affect your ability to have children. Talk to your healthcare provider if this is a concern for you.

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

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

General information about the safe and effective use of TIVDAK.

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. If you would like more information about TIVDAK, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about TIVDAK that is written for healthcare professionals.

What are the ingredients in TIVDAK?

Active ingredient: tisotumab vedotin-tftv

Inactive ingredients: d-mannitol, l-histidine, l-histidine monohydrochloride, and sucrose.

Manufactured by: Seagen Inc., Bothell, WA 98021

Marketed by: Seagen Inc., Bothell, WA 98021 and Genmab US, Inc., Plainsboro, NJ 08536

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LAB-1597-1.0

For more information, go to www.tivdak.com or call 1-855-4SEAGEN

This Medication Guide has been approved by the U.S. Food and Drug Administration. Revised: 11/2025

PRINCIPAL DISPLAY PANEL

Rx Only

NDC 51144-003-01

tivdak[®]

(tisotumab vedotin-tftv)
for injection

40 mg/vial

CAUTION: Hazardous Agent

For intravenous infusion only

Must reconstitute and dilute before use

One single-dose vial.
Discard unused portion.

**Provide the enclosed
Medication Guide to each patient**

Seagen[®]
Genmab

Dosage:
See Prescribing Information.

Storage:
Store vial refrigerated at
2°C to 8°C (36°F to 46°F) in
original carton to protect from
light. DO NOT FREEZE.
DO NOT SHAKE.

No U.S. Standard of Potency

U.S. License 2257

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trademark of Seagen Inc.

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PRODUCT OF SWITZERLAND

Each vial contains 40 mg of

tisotumab vedotin-tftv.

No Preservative

After reconstitution with **4 mL** of Sterile Water for Injection, USP, the concentration of TIVDAK (tisotumab vedotin-tftv) is **10 mg/mL**

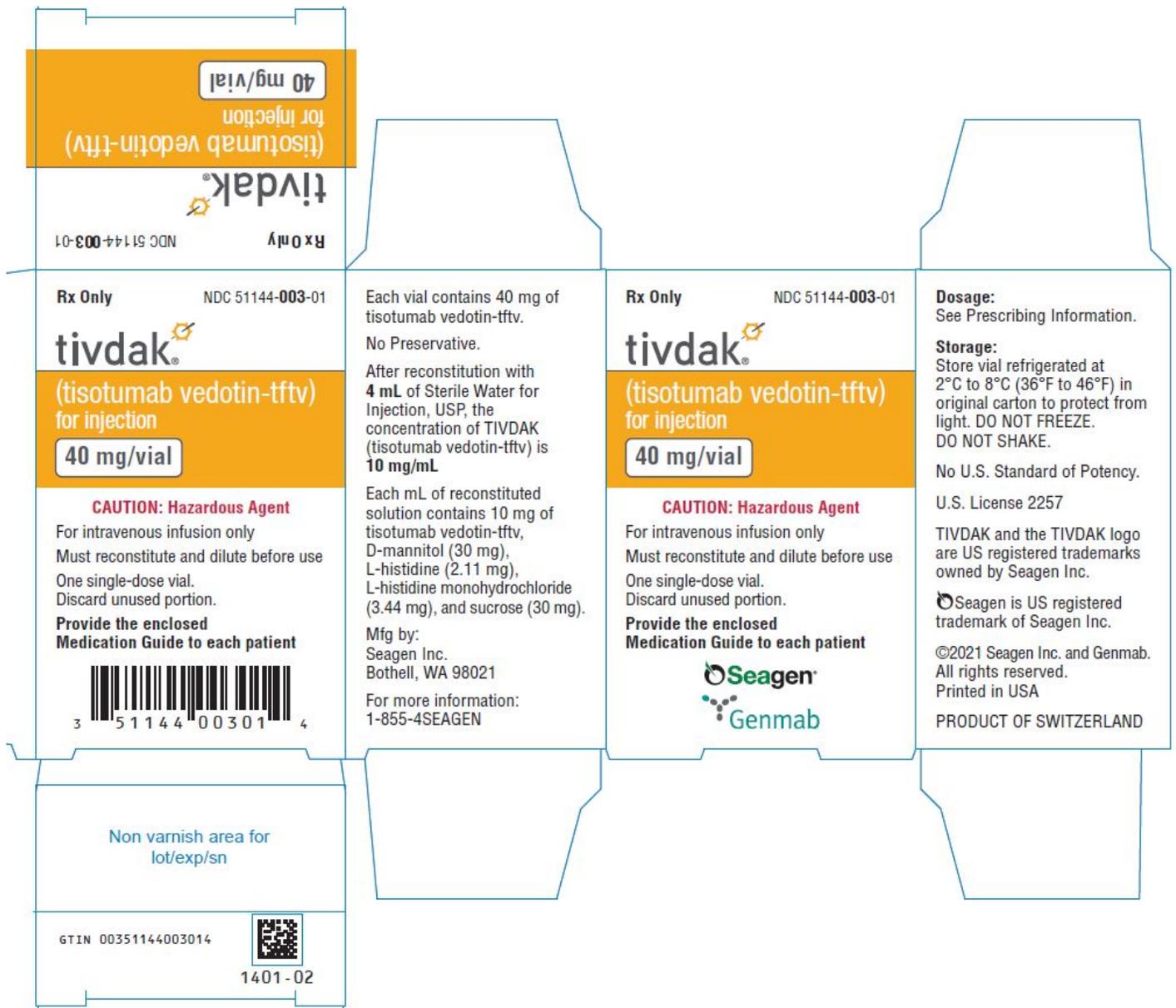
Each mL of reconstituted solution contains 10 mg of tisotumab vedotin-tftv, D-mannitol (30 mg), L-histidine (2.11 mg), L-histidine monohydrochloride (3.44 mg), and sucrose (30mg)

Mfg by:
Seagen Inc.
Bothell, WA 98021

For more information:
1-855-4SEAGEN

GTIN 00351144003014

1401 - 02



Rx Only

NDC 51144-003-01

tivdak[®]

(tisotumab vedotin-tftv)
for injection

40 mg/vial

For intravenous infusion only
Must reconstitute and dilute before use
Single-dose vial. Discard unused portion.

CAUTION: Hazardous Agent

Store at 2°C to 8°C (36°F to 46°F)

Protect from light.
DO NOT FREEZE. DO NOT SHAKE.

Dosage: See Prescribing Information

Provide the enclosed Medication Guide to each patient.

Mfg by: Seagen Inc. U.S. License 2257
PRODUCT OF SWITZERLAND

Seagen®
Genmab

1400-02

Rx Only NDC 51144-003-01

tivdak®
(tisotumab vedotin-tftv)
for injection

40 mg/vial

For intravenous infusion only
Must reconstitute and dilute before use
Single-dose vial. Discard unused portion

CAUTION: Hazardous Agent
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DO NOT FREEZE. DO NOT SHAKE.
Dosage: See Prescribing Information
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Genmab

Lot & Exp

1400-02

TIVDAK

tisotumab vedotin injection, powder, for solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:51144-003
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Tisotumab Vedotin (UNII: T41737F88A) (Tisotumab Vedotin - UNII:T41737F88A)	Tisotumab Vedotin	40 mg in 4 mL

Inactive Ingredients

Ingredient Name	Strength
Mannitol (UNII: 3OWL53L36A)	
Histidine Monohydrochloride Monohydrate (UNII: X573657P6P)	
Sucrose (UNII: C151H8M554)	
Histidine (UNII: 4QD397987E)	

Product Characteristics

Color	WHITE (OFF-WHITE)	Score	
Shape		Size	
Flavor		Imprint Code	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:51144-003-01	1 in 1 CARTON	09/20/2021	
1		4 mL in 1 VIAL; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA761208	09/20/2021	

Labeler - SEAGEN INC. (028484371)

Establishment

Name	Address	ID/FEI	Business Operations
PROCOS SpA		439262429	API MANUFACTURE(51144-003)

Establishment

Name	Address	ID/FEI	Business Operations
CARBOGEN AMCIS AG		480055421	ANALYSIS(51144-003)

Establishment

Name	Address	ID/FEI	Business Operations
CARBOGEN AMCIS AG		481385565	ANALYSIS(51144-003)

Establishment

Name	Address	ID/FEI	Business Operations
Redox Srl		439198391	ANALYSIS(51144-003)

