

Up Close with Tebentafusp

This section provides an overview of tebentafusp-tebn (KIMMTRAK®).

- Indications
- Solution
 Solution
- 🔺 CRS
- Other toxicities

Indications



Tebentafusp is a **bispecific glycoprotein 100 (gp100) peptide human leukocyte antigen (HLA)-directed CD3 T cell engager** indicated for the treatment of:

 HLA-A*02:01-positive adult patients with unresectable or metastatic uveal melanoma

Dosing and Administration



Tebentafusp is administered **intravenously (IV)** as part of a weekly cycle, with unique **step-up dosing** requirements during Cycle 1 to reduce the risk of cytokine release syndrome (CRS).

| Dosing Schedule | Day of Treatment | Tebentafusp Dose / Route |
|----------------------|------------------------|--------------------------|
| Cycle 1 ^ª | Day 1 | 20 mcg IV |
| | Day 8 | 30 mcg IV |
| | Day 15⁵ | 68 mcg IV |
| Cycle 2+ | Once weekly thereafter | 68 mcg IV |

^aThe first three doses (Cycle 1) of tebentafusp should be administered in an appropriate healthcare setting via IV infusion over 15-20 minutes. All patients should be monitored for at least 16 hours following completion of each infusion.

^bIf patients do not experience Grade 2 ≤ hypotension (requiring medical attention) during or after third infusion (Cycle 1 Day 15), subsequent doses may be administered in an appropriate ambulatory care setting. All patients should be monitored for a minimum of 30 minutes or longer following each infusion.

Recommendations for Restarting Therapy with Tebentafusp After Dosage Delay

There are **no dose modifications** recommended for tebentafusp following a dose delay.

\rm LCRS



What is it? Cytokine release syndrome (CRS) is a systemic inflammatory response that can occur when the immune system is activated and releases large amounts of cytokines—proteins that help regulate immune responses.

- Signs and symptoms: pyrexia, hypotension, hypoxia, dyspnea, chills, and tachycardia.
- CRS is frequently graded using the <u>American Society for Transplantation and Cellular</u> <u>Therapy (ASTCT) consensus criteria.</u>

Why it matters. CRS occurred in 77% of patients who received tebentafusp in the study IMCg100-202. Most patients (60%) experienced \geq Grade 2 CRS events after receiving more than 1 infusion, with the median number of events found to be 2 (range: 1-12).

- Among the majority of cases, (84%) CRS episodes:
 - Began: On the day of infusion
 - **Resolved:** Within 2 days
- Care teams should withhold or discontinue tebentafusp based on the persistence and severity CRS.

The bottom line. CRS occurred in a large number of patients within the clinical trial, however the duration remained low and resolved relatively quickly.

Other Toxicities



Tebentafusp may cause other adverse reactions such as **skin reactions**, **elevated liver enzymes**, **and embryo-fetal toxicity**.

Why it matters. In addition to the risks of CRS, care teams need to be on the lookout for other **tebentafusp**-associated toxicities.

Skin Reactions. Tebentafsup may cause **skin reactions**, which include rash, pruritis, and cutaneous edema.

- In the study IMCg100-202 skin reactions occurred in 91% of patients treated with tebentafsup including Grade 2 (44%) and Grade 3 (21%).
 - Specific incidence of reactions were as followed:
 - Rash (83%)
 - Cutaneous edema (27%)
 - Erythema (25%)
 - Pruritus (69%)
- Skin reactions typically had an **onset of 1 day following infusion** (range: 1-55) and **resolved to ≤ Grade 1 or baseline** over approximately **6 days**.

The bottom line. Skin reactions will likely occur within 24 hours of receiving an infusion, however resolved relatively quickly.

- Care teams should **treat patients with antihistamine and topical/systemic steroids** based on the persistence and severity of the skin reaction.
- Additionally, tebentafusp **should be withheld or permanently discontinued depending** on the **severity** of the reaction.

Elevated Liver Enzymes. Tebentafusp may cause elevations in liver enzymes, including alanine aminotransferase (ALT) or aspartate aminotransferase (AST).

- In the study, **liver enzyme elevations** were observed in approximately **65%** of patients treated with tebentafusp and led to **0.4% of permanent discontinuation**.
 - The majority (73%) of these elevations initially occurred within the first three infusions, and most patients who experienced Grade 3 or 4 ALT/AST elevations resolved to ≤ Grade 1 or baseline over approximately 7 days
 - Events reported outside of the setting of CRS, typically had liver enzyme elevations with an onset of 129 days.
 - Grade 3 ≤ elevations occurred in 8% of patients.

The bottom line. Liver enzyme elevations were reported predominantly in the first cycle and may be associated with incidence of CRS.

• Care teams should **monitor ALT/AST and total bilirubin** prior to tebentafusp treatment and during the course of treatment and withhold according to severity.

Embryo-Fetal Toxicity. Tebentafusp may cause fetal harm when administered to a pregnant woman.

- Advise females of reproductive potential to use effective contraception during treatment and for at least 1 week after the last dose.
- Verify pregnancy status before initiating tebentafusp.

Use in Specific Populations

- Lactation: Advise women not to breastfeed during treatment and for 4 months after the last dose.
- **Geriatric Use:** 47% of the population studied in IMCgp100-202 were 65 years of age or older and 9% were 75 years of age or older. No overall difference in safety and efficacy were observed when comparing patients 65 years of age or older to younger adult patients.
- **Pediatric Use:** Safety and efficacy of tebentafusp has not yet been established in the pediatric population.

Updated: 03/25/2025

References:

- 1. Lee DW, Santomasso BD, Locke FL, et al. ASTCT Consensus grading for cytokine release syndrome and neurologic toxicity associated with immune effector cells. *Biol Blood Marrow Transplant*. 2019;25(4):625-638. doi:10.1016/j.bbmt.2018.12.758.
- Nathan P, Hassel JC, Rutkowski P, et al. Overall survival benefit with tebentafusp in metastatic uveal melanoma. N Engl J Med. 2021;385(13):1196-1206. doi:10.1056/NEJMoa2103485
- 3. <u>KIMMTRAK® (tebentafusp-tebn) [package insert]. Immunocore Limited. Oxfordshire,</u> <u>United Kingdom. 2022.</u>