

Technical Data Sheet

InVivoSIM bispecific anti-human EGFR X HER3 (Izalontamab Biosimilar)



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Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at <https://bioxcell.com/terms-and-conditions>.

Lot Specific Information

Lot Number: Lot Specific*
Volume: Lot Specific*
Concentration: Lot Specific* (generally 4 to 11 mg/ml) *
Total Protein: Lot Specific*

*This information will be noted on the certificate of analysis that ships with this product.

Product Website Link: <https://bioxcell.com/invosim-bispecific-anti-human-egfr-x-her3-izalontamab-biosimilar-simb0114>

Product Information

Catalog Number: SIMB0114
Clone: Izalontamab
Isotype: Human IgG1(K214R/E356D/M358L)-kappa-scFv (heavy - lambda)2
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Mutations: (K214R/E356D/M358L)
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: ≤0.5EU/mg (≤0.0005EU/μg)
Determined by LAL assay
Purity: ≥95%
Determined by SDS-PAGE
Sterility: 0.2 μm filtration
Production: Purified from cell culture supernatant in an animal-free facility
Purification: Protein A
RRID:
Molecular Weight: 150 kDa

Murine Pathogen Test Results

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative

Description

This biosimilar antibody shares the same variable regions as Izalontamab, making it well suited for research applications. Izalontamab is a bispecific antibody combining a Human IgG1 with two ScFv that simultaneously targets epidermal growth factor receptor (EGFR) and human epidermal growth factor receptor 3 (HER3), two receptor tyrosine kinases frequently overexpressed in solid tumors. EGFR and HER3 drive tumor cell proliferation, survival, and resistance to targeted therapies, and their co-engagement allows Izalontamab to overcome the compensatory signaling and resistance mechanisms that often limit single-target approaches. The therapeutic form of this antibody, Izalontamab brengitecan, is an antibody-drug conjugate (ADC) in which Izalontamab serves as the targeting moiety for a cytotoxic payload delivered to EGFR/HER3-expressing tumor cells. Izalontamab brengitecan has shown promising antitumor activity across multiple solid tumors, including non-small cell lung cancer, prostate cancer, and head and neck cancers. This biosimilar is provided as the unconjugated antibody, without the cytotoxic payload. It is intended for research use in studying EGFR/HER3 biology, bispecific antibody binding and

signaling, dual receptor targeting strategies, and as a non-cytotoxic control for ADC studies in cancer models.

Storage

Store at the stock concentration at 4°C . **Do not freeze.**

It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at <https://bioxcell.com/faqs>.

Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/invivosim-bispecific-anti-human-egfr-x-her3-izalontamab-biosimilar-simb0114?utm_source=cr9k1b#tab_references or scan the QR code below.



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