

# Technical Data Sheet

## InVivoSIM bispecific anti-human IGF-1R x HER3 (Istiratumab Biosimilar)



[bioxcell.com](http://bioxcell.com)

**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/invivosim-bispecific-anti-human-igf-1r-x-her3-istiratumab-biosimilar-simb0118>

### Product Information

Catalog Number: SIMB0118  
Clone: Istiratumab  
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer  
Reported Applications: *in vivo* functional assays  
*in vitro* functional assays  
ELISA  
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 Istiratumab biosimilar antibody uses the same variable regions as the therapeutic antibody Istiratumab, making it ideal for research use. Istiratumab is a bispecific monoclonal antibody that simultaneously targets human insulin-like growth factor 1 receptor (IGF-1R) and ERBB3 (HER3), two receptor tyrosine kinases involved in tumor cell proliferation, survival, and resistance signaling. IGF-1R and HER3 signaling pathways can cooperate to promote activation of downstream PI3K/AKT and MAPK pathways, contributing to tumor growth and therapeutic resistance in multiple solid tumors. By binding both IGF-1R and HER3, Istiratumab is designed to inhibit ligand-dependent receptor activation, disrupt compensatory signaling between these pathways, and suppress downstream pro-survival signaling. This dual-targeting approach provides a valuable model for studying receptor crosstalk and combination pathway inhibition in oncology. This Istiratumab biosimilar is well suited for investigating IGF-1R/HER3 signaling biology, tumor resistance mechanisms, receptor co-targeting strategies, and for benchmarking the therapeutic antibody's mechanism of action in pre-clinical experimental systems.

## 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-igf-1r-x-her3-istiratumab-biosimilar-simb0118?utm\\_source=cr9k1b#tab\\_references](https://bioxcell.com/invivosim-bispecific-anti-human-igf-1r-x-her3-istiratumab-biosimilar-simb0118?utm_source=cr9k1b#tab_references) or scan the QR code below.



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*Not for resale.*

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