

Technical Data Sheet

InVivoSIM anti-human CD38 (Isatuximab Biosimilar)



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 Information

Catalog Number: SIM0092
Clone: Isatuximab
Isotype: Human IgG1, κ
Recommended Isotype Control(s): RecombiMAb human IgG1 isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Mutations: E356D/M358L
Immunogen: Human CD38
Reported Applications: *in vivo* functional assays
in vitro functional assays
ELISA
Flow cytometry
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: <0.5EU/mg (<0.0005EU/ μ g)
Determined by LAL gel clotting assay
Purity: >95%
Determined by SDS-PAGE
Sterility: 0.2 μ m filtration
Production: Purified from cell culture supernatant in an animal-free facility
Purification: Protein A
Aggregation: <5%
Determined by SEC
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 non-therapeutic biosimilar antibody uses the same variable regions as the therapeutic antibody Isatuximab, making it ideal for research use. Isatuximab is a chimeric IgG1 monoclonal antibody that specifically targets human CD38, a multifunctional transmembrane glycoprotein highly expressed on malignant plasma cells and other hematologic tumor cells,

but also found at lower levels on subsets of immune cells such as NK cells, regulatory T cells, B cells, and some myeloid cells. CD38 has both receptor and ectoenzyme functions, contributing to cell adhesion, signal transduction, calcium mobilization, and NAD⁺ metabolism. By binding CD38, Isatuximab induces tumor cell death through multiple mechanisms including antibody-dependent cellular cytotoxicity (ADCC), complement-dependent cytotoxicity (CDC), antibody-dependent cellular phagocytosis (ADCP), and direct pro-apoptotic signaling. In the clinic, Isatuximab is approved for the treatment of multiple myeloma, where it has shown efficacy in reducing tumor burden and extending survival when combined with standard-of-care therapies. This Isatuximab biosimilar is well suited for studying CD38 signaling, plasma cell biology, tumor immunology, immune regulation, and therapeutic strategies targeting multiple myeloma and other CD38-positive malignancies.

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/sim0092?bxcs=9k1b3a#tab_references or scan the QR code below.



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