

# Technical Data Sheet

InVivoSIM anti-human sclerostin (SOST) (Romosozumab 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: SIM0068  
Clone: Romosozumab  
Isotype: Human IgG2, κ  
Recommended Isotype Control(s): RecombiMAb human IgG2 isotype control, anti-hen egg lysozyme  
Recommended Dilution Buffer: InVivoPure pH 6.0T Dilution Buffer  
Immunogen: Human SOST  
Reported Applications: *in vitro* and *ex vivo* assays of sclerostin neutralization  
ELISA  
Western blot  
Flow cytometry  
Formulation: PBS, pH 7.0  
Contains no stabilizers or preservatives  
Endotoxin: <0.5 EU/mg (<0.0005 EU/μg)  
Determined by LAL gel clotting 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  
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 Romosozumab, making it ideal for research use. Romosozumab is a humanized IgG2κ monoclonal antibody that targets sclerostin (SOST), a secreted glycoprotein produced by osteocytes. Sclerostin negatively regulates bone formation by binding LRP4/5/6 and inhibiting Wnt/β-catenin signaling—a key pathway for osteoblast activity. By neutralizing sclerostin, Romosozumab promotes bone formation while simultaneously suppressing bone resorption. This Romosozumab biosimilar is intended for non-therapeutic research use and can support studies on osteoanabolic mechanisms, Wnt signaling, and sclerostin function in bone biology.

## 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/sim0068?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/sim0068?bxcs=9k1b3a#tab_references) or scan the QR code below.



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class="img-fluid" style="padding-top: 8px;" />

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