# 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

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|---|---|
| **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<br>ELISA<br>Western blot<br>Flow cytometry |
| **Formulation:** | PBS, pH 7.0<br>Contains no stabilizers or preservatives |
| **Endotoxin:** | ≤0.5EU/mg (≤0.0005EU/μg)<br>Determined by LAL gel clotting assay |
| **Purity:** | ≥95%<br>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%<br>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 or scan the QR code below.

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