Technical Data Sheet

InVivoSIM anti-human FGF-23 (Burosumab 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:	**SIM0079**
Clone:	**Burosumab**
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 FGF-23
Reported Applications:	*in vivo* functional assays *in vitro* functional assays Flow cytometry ELISA
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	≤0.5EU/mg (≤0.0005EU/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 biosimilar antibody uses the same variable regions as the therapeutic antibody Burosumab making it ideal for research use. Burosumab is a fully human IgG1 monoclonal antibody that specifically targets fibroblast growth factor 23 (FGF-23). It binds circulating FGF-23, blocking its interaction with the FGFR1–α-Klotho receptor complex, thereby restoring phosphate homeostasis by enhancing renal phosphate reabsorption and increasing active vitamin D production. FGF-23 is a hormone

secreted by osteocytes and osteoblasts that regulates serum phosphate levels by inhibiting phosphate reabsorption in the kidney and suppressing vitamin D synthesis, ultimately reducing intestinal phosphate absorption. Clinically, Burosumab is approved for the treatment of X-linked hypophosphatemia (XLH) and tumor-induced osteomalacia (TIO) in both adults and children. It has demonstrated significant improvements in serum phosphate, bone mineralization, rickets severity, and growth in XLH patients, with sustained efficacy and safety over extended use. This Burosumab biosimilar is well suited for studying phosphate and vitamin D metabolism, endocrine FGF signaling, bone biology, and therapeutic blockade of FGF-23.

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

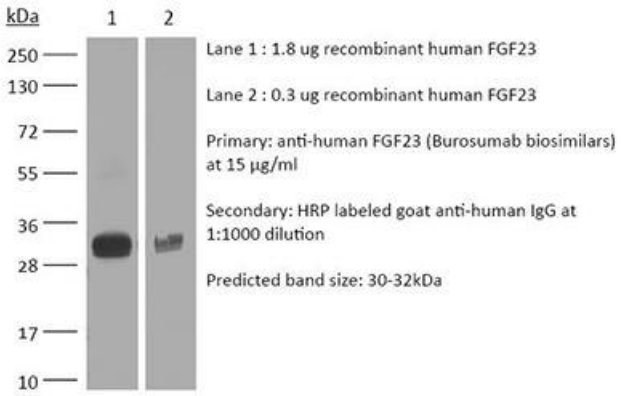
Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/sim0079?bxcs=9k1b3a#tab_references or scan the QR code below.

Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail technicalservice@bioxcell.com.



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