

Technical Data Sheet

InVivoSIM bispecific anti-human FIXa x FX (Emicizumab Biosimilar)



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-fixa-x-fx-emicizumab-biosimilar-simb0112>

Product Information

Catalog Number: SIMB0112
Clone: Emicizumab
Isotype: Human IgG4, κ
Recommended Isotype Control(s): RecombiMAb human IgG4 (S228P) isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Mutations: S228P
Reported Applications: *in vivo* functional assays
in vitro functional assays
ELISA
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: ≤ 0.5 EU/mg (≤ 0.0005 EU/ μ g)
Determined by LAL assay
Purity: $\geq 95\%$
Determined by SDS-PAGE
Sterility: 0.2 μ m filtration
Production: Purified from cell culture supernatant in an animal-free facility
Purification: Protein A
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 Emicizumab biosimilar antibody uses the same variable regions as the therapeutic antibody Emicizumab, making it ideal for research use. Emicizumab is a humanized bispecific antibody that simultaneously binds human activated coagulation factor IX (FIXa) and factor X (FX), functionally mimicking the cofactor activity of activated factor VIII (FVIIIa) by bringing FIXa and FX into close proximity to promote FX activation and downstream thrombin generation. Unlike many bispecific antibodies that function through blocking or immune cell redirection, Emicizumab acts as a bridging molecule that restores coagulation activity in the absence of functional FVIII. This unique mechanism makes it a valuable research tool for

studying coagulation biology, hemophilia A disease mechanisms, thrombin generation, and engineered bispecific antibody function. This Emicizumab biosimilar is well suited for investigating coagulation cascade biology, FVIII replacement strategies, hemostatic mechanisms, 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-ixa-x-fx-emicizumab-biosimilar-simb0112?utm_source=cr9k1b#tab_references or scan the QR code below.



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