

# Technical Data Sheet

## InVivoSIM anti-human CD20 (Ublituximab 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:	SIM0091
Clone:	Ublituximab
Isotype:	Human IgG1, $\kappa$
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 CD20
Reported Applications:	<i>in vivo</i> functional assays <i>in vitro</i> functional assays Flow cytometry ELISA
Formulation:	pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	<0.5EU/mg (<0.0005EU/ $\mu$ g) Determined by LAL gel clotting assay
Purity:	>95% Determined by SDS-PAGE
Sterility:	0.2 $\mu$ 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 Ublituximab, making it ideal for research use. Ublituximab is a chimeric IgG1 monoclonal antibody that targets CD20, a transmembrane phosphoprotein expressed on pre-B and mature B lymphocytes but not on plasma cells. CD20 is involved in B cell activation,

proliferation, and calcium signaling. Ublituximab binds a unique epitope on CD20 and mediates potent B cell depletion primarily through antibody-dependent cellular cytotoxicity (ADCC). The original therapeutic antibody is glycoengineered for enhanced FcγRIIIa binding and effector function, though this research-grade biosimilar is not afucosylated. This Ublituximab biosimilar is ideal for exploring CD20 biology, B cell-mediated diseases, and mechanisms of B cell depletion in cancer and autoimmunity.

## 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/sim0091?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/sim0091?bxcs=9k1b3a#tab_references) or scan the QR code below.



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*Not for resale.*

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