

## InVivoSIM anti-human CD20 (Rituximab 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://bxcell.com/terms-and-conditions/>.

### Lot Specific Information

|                       |   |
|-----------------------|---|
| <b>Lot Number:</b>    | Lot Specific*                             |
| <b>Volume:</b>        | Lot Specific*                             |
| <b>Concentration:</b> | Lot Specific* (generally 4 to 11 mg/ml) * |
| <b>Total Protein:</b> | Lot Specific*                             |

\*This information will be noted on the certificate of analysis that ships with this product.

### Product Information

|  |   |
|--|---|
| <b>Catalog Number:</b>                 | <b>SIM0008</b>  |
| <b>Clone:</b>                          | <b>Rituximab</b>  |
| <b>Isotype:</b>                        | human IgG1  |
| <b>Recommended Isotype Control(s):</b> | InVivoPlus human IgG1 isotype control                         |
| <b>Recommended Dilution Buffer:</b>    | InVivoPure pH 7.0 Dilution Buffer                             |
| <b>Immunogen:</b>                      | Human lymphoblastoid cell line SB                             |
| <b>Reported Applications:</b>          | Flow Cytometry<br>ELISA<br>Western Blot                       |
| <b>Formulation:</b>                    | PBS, pH 7.0<br>Contains no stabilizers or preservatives       |
| <b>Endotoxin:</b>                      | <1EU/mg (<0.001EU/μg)<br>Determined by LAL gel clotting assay |
| <b>Sterility:</b>                      | 0.2 μM filtered   |
| <b>Production:</b>                     | Purified from cell culture supernatant                        |
| <b>Purification:</b>                   | Protein A   |
| <b>Aggregation:</b>                    | <5%<br>Determined by DLS                                      |
| <b>Molecular Weight:</b>               | 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 from the therapeutic antibody Rituximab making it ideal for research use. This Rituximab biosimilar reacts with human CD20. CD20 is a B cell-specific 33-37 kDa transmembrane protein which is also known as B-lymphocyte antigen, B1, and Bp35. CD20 plays roles in intracellular calcium regulation and B cell activation and is critical for an optimal B cell immune response against T-independent antigens. CD20 is first expressed after the induction of CD19 together with IgM during the pre-B to immature B cell transition in the bone marrow. It's expression then increases during maturation with almost all mature B cells expressing some level of CD20. However, CD20 is not expressed by plasma blasts or plasma cells. CD20 is expressed by most B cell neoplasms, and is useful in diagnosing B cell lymphomas and leukemia's. Many anti-CD20 monoclonal antibodies are currently being used to successfully treat leukemia's, lymphomas, and various autoimmune diseases. Rituximab has depleting activity and mediates ADCC and CDC of CD20<sup>+</sup> cells. This results in the elimination of B cells from the body.

### Shelf-life and Storage

Store at the stock concentration at 4°C. **Do not freeze.**

All Bio X Cell antibodies have a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended. 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 [bxcell.com/faqs](https://bxcell.com/faqs).

### Bio X Cell, Inc.

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## 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://bxcell.com/product/invivosim-anti-human-cd20-rituximab-biosimilar/#references> or scan the QR code below.



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