

Technical Data Sheet

InVivoSIM anti-human CD79b (Polatuzumab 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: | SIM0060 |
| Clone: | Polatuzumab |
| 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 |
| Immunogen: | Human CD79b |
| Reported Applications: | Functional assays Flow cytometry Immunoprecipitation ELISA |
| Formulation: | PBS, pH 7.0 Contains no stabilizers or preservatives |
| Endotoxin: | <0.5EU/mg (<0.0005EU/ μ g) Determined by LAL gel clotting assay |
| Purity: | >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 |
| 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 Polatuzumab, making it ideal for research use. Polatuzumab is a humanized IgG1 monoclonal antibody that targets CD79b, a critical component of the B cell receptor (BCR) complex. CD79b, also known as Ig β , forms a heterodimer with CD79a (Ig α) and is essential for signal transduction following antigen engagement of surface immunoglobulin. The CD79a/CD79b complex initiates

downstream signaling cascades that regulate B cell development, activation, proliferation, and survival. CD79b is expressed throughout most stages of B cell maturation but is absent from plasma cells and non-B lineage cells. Importantly, CD79b is retained on the surface of many malignant B cells, including those in diffuse large B-cell lymphoma (DLBCL) and follicular lymphoma, making it an attractive therapeutic and diagnostic target. Polatuzumab serves as the antibody backbone for the FDA-approved antibody-drug conjugate Polatuzumab vedotin, which delivers a cytotoxic MMAE payload to CD79b+ cells. In contrast, this unconjugated biosimilar form lacks any drug conjugation, allowing researchers to study CD79b-specific antibody binding, internalization, and function without the confounding effects of cytotoxicity. This Polatuzumab biosimilar antibody retains the antigen-binding domains of the therapeutic but is produced for non-clinical research use. It is suitable for a range of applications, including flow cytometry, B cell targeting studies, preclinical modeling, and ADC development.

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/sim0060?bxcs=9k1b3a#tab_references or scan the QR code below.



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