Technical Data Sheet

InVivoSIM anti-human CD30 (Brentuximab 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:	**SIM0073**
Clone:	**Brentuximab**
Isotype:	Human IgG1, κ
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Mutations:	E356D/M358L
Immunogen:	Human CD30
Reported Applications:	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 non-therapeutic biosimilar antibody uses the same variable regions as the therapeutic antibody Brentuximab, making it ideal for research use. Brentuximab is a humanized IgG1 monoclonal antibody that targets CD30, also known as TNF Receptor Superfamily Member 8 (TNFRSF8), D1S166E, or Ki-1. The CD30 receptor is a 120 kDa glycoprotein antigen that is highly expressed in CD8+ and CD4+ lymphocytes. The CD30 receptor's ligand is a membrane-bound cytokine, CD30L, that is expressed on activated granulocytes and lymphocytes. The binding of the CD30 receptor to its ligand CD30L activates the receptor activity that leads to the recruitment of TNF-related factors (TRAF1, TRAF2, and TRAF3) and signaling complex formation, thereby stimulating the anti-apoptotic and pro-survival pathways (NFkB and MAPK) in tumors. Besides

activated lymphocytes, the CD30 receptor is expressed in eosinophils, B cells, NK cells, dendritic cells (DC), and T regulatory cells (Treg), and its lack in peripheral blood cells makes it an attractive therapeutic target. Brentuximab is the antibody component of the brentuximab vedotin (BV) antibody–drug conjugate (ADC) that is reported to deliver the microtubule-disrupting drug monomethyl auristatin E (MMAE) to CD30+ cancer cells in studies involving Hodgkin lymphoma (HL), systemic anaplastic large cell lymphoma (sALCL), cutaneous T-cell lymphomas, primary cutaneous anaplastic large cell lymphoma (pcALCL), peripheral T-cell lymphoma (PTCL), and mycosis fungoides (MF).

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/sim0073?bxcs=9k1b3a#tab_references or scan the QR code below.

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