

Technical Data Sheet

InVivoSIM anti-human integrin $\alpha 4\beta 7$ (LPAM-1) (Vedolizumab 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: SIM0024
Clone: Vedolizumab
Isotype: Human IgG1, κ
Recommended Isotype Control(s): RecombiMAb human IgG1 (LALA-PG) isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: Human integrin $\alpha 4\beta 7$ (LPAM-1)
Reported Applications: Functional assays
ELISA
Western blot
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: <1EU/mg (<0.001EU/ 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 Vedolizumab making it ideal for research use. This Vedolizumab biosimilar reacts with integrin $\alpha 4\beta 7$. The 130 kDa integrin $\beta 7$ chain associates with the 150 kDa integrin $\alpha 4$ (CD49d) chain to form LPAM-1, a member of the Ig superfamily. LPAM-1 is expressed by peripheral lymphocytes, small subsets of thymocytes, and bone marrow progenitors. LPAM-1 binds VCAM-1 (CD106), MAdCAM-1, and fibronectin and facilitates lymphocyte adhesion and migration to the intestine and associated lymphoid tissues.

Vedolizumab binds specifically to the $\alpha 4\beta 7$ integrin heterodimer, but not to the functionally distinct $\alpha 4\beta 1$ or $\alpha E\beta 7$ integrin heterodimers, thereby inhibiting the binding of $\alpha 4\beta 7$ -expressing cells to MAdCAM-1 and fibronectin, but not to VCAM-1.

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.

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