

Technical Data Sheet

InVivoSIM anti-human CD25 (IL-2R α) (Daclizumab 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: SIM0035
Clone: Daclizumab
Isotype: Human IgG1, κ
Recommended Isotype Control(s): RecombiMAb human IgG1 (D265A) isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Mutations: E356D/M358L
Immunogen: Human CD25
Reported Applications: Functional assays
Western blot
Flow cytometry
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 from the therapeutic antibody Daclizumab making it ideal for research use. The Daclizumab biosimilar antibody reacts with the Tac epitope on the α -subunit of human IL-2R α also known as CD25, Ly-43, p55, or Tac. IL-2R α is the 55 kDa ligand-binding subunit of the interleukin 2 receptor alpha chain. IL-2R α is expressed on activated mature T and B lymphocytes, thymocyte subsets, pre-B cells, and T regulatory cells.

IL-2R α has been shown to play roles in lymphocyte differentiation, activation, and proliferation. Alone, the IL-2R α binds IL-2 with relatively low affinity however, when IL-2R α associates with IL-2R β (CD122) and the common gamma chain (CD132) the complex binds IL-2 with high affinity. Daclizumab functions by blocking the IL-2 binding site on the low- and high-affinity IL-2R without depleting T cells by antibody-dependent cellular cytotoxicity, complement mediated lysis or apoptosis, or activating the receptor and signaling pathways. This blockade results in the inhibition of several IL-2 dependent T-cell functions, including antigen- and mitogen-induced proliferation, cytokine secretion by activated Th1 and Th2 lymphocytes, and interference with CD28-dependent CD40 ligand expression.

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.

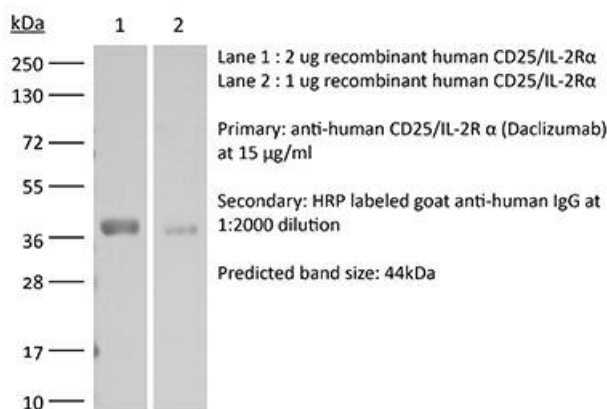
Application References

For a complete list of references, visit https://bioxcell.com/catalogsearch/result?q=SIM0035#tab_references or scan the QR code below.



Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail technicalservice@bioxcell.com.



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