

Technical Data Sheet

InVivoSIM anti-human CTLA-4 (Tremelimumab 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:	SIM0046
Clone:	Tremelimumab
Isotype:	Human IgG2, κ
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Mutations:	S378A
Immunogen:	Human CTLA-4
Reported Applications:	CTLA-4 neutralization Flow Cytometry ELISA Western Blot
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	≤ 0.5 EU/mg (≤ 0.0005 EU/ μ g) Determined by LAL gel clotting assay
Purity:	$\geq 95\%$ 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 biosimilar antibody uses the same variable regions from the therapeutic antibody Tremelimumab making it ideal for research use. This Tremelimumab biosimilar is a fully human monoclonal antibody which reacts with human CTLA-4 (cytotoxic T lymphocyte antigen-4) also known as CD152. CTLA-4 is a 33 kDa cell surface receptor encoded by the Ctl4 gene that belongs to the CD28 family of the Ig superfamily. CTLA-4 is expressed on activated T and B lymphocytes. CTLA-4 is structurally similar to the T-cell co-stimulatory protein, CD28, and both molecules bind to the B7 family members B7-1 (CD80) and B7-2 (CD86). Upon ligand binding, CTLA-4 negatively regulates cell-mediated immune responses. CTLA-4

plays roles in induction and/or maintenance of immunological tolerance, thymocyte development, and regulation of protective immunity. CTLA-4 is among a group of inhibitory receptors being used as cancer treatment targets through immune checkpoint blockade. Tremelimumab binds to CTLA-4, blocking the inhibitory signal, which allows the cytotoxic T cells to kill cancer cells. Tremelimumab and Ipilimumab are both fully human monoclonal antibodies directed against CTLA-4, but Ipilimumab is an IgG1 isotype and Tremelimumab is a non-complement-fixing IgG2 isotype.

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

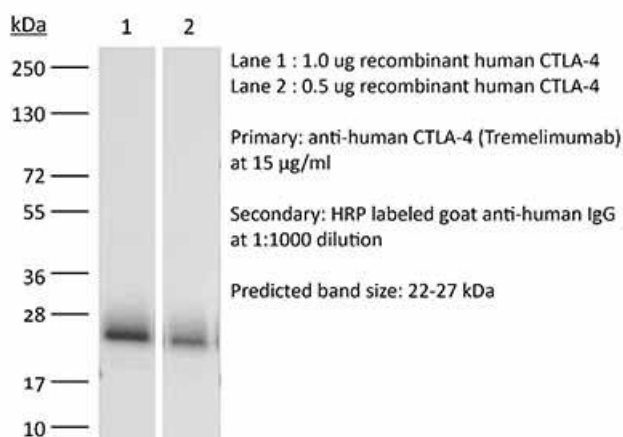
https://bioxcell.com/sim0046?bxcs=9k1b3a#tab_references

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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