

Technical Data Sheet

InVivoSIM anti-human PD-1 x CTLA-4 (Vudalimab Biosimilar)



bioxcell.com

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: SIMB0109
Clone: Vudalimab
Isotype: Human IgG1, κ
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Mutations: E233P/L234V/L235A/G236del/S267K/E357Q/S364K/L368D/K370S/M428L/N434S
Reported Applications: *in vivo* functional assays
in vitro functional assays
ELISA
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: ≤ 0.5 EU/mg (≤ 0.0005 EU/ μ g)
Determined by LAL 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
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 Vudalimab biosimilar antibody uses the same variable regions as the therapeutic antibody Vudalimab, making it ideal for research use. Vudalimab is a humanized IgG1-based bispecific antibody that simultaneously targets human programmed cell death protein 1 (PD-1; PDCD1; CD279) and cytotoxic T-lymphocyte-associated protein 4 (CTLA-4; CD152), two inhibitory immune checkpoint receptors that regulate T-cell activation and antitumor immunity. The molecule combines an anti-PD-1 IgG arm with an anti-CTLA-4 single-chain variable fragment (scFv) to enable dual checkpoint targeting within a single molecule. By simultaneously engaging PD-1 and CTLA-4, Vudalimab inhibits two complementary mechanisms of T-cell suppression and is designed to preferentially target T cells co-expressing both checkpoints, including tumor-infiltrating lymphocytes. Dual checkpoint blockade can restore T-cell activation, proliferation, and cytotoxic immune responses within the tumor microenvironment. This Vudalimab biosimilar is well suited for studying PD-1 and CTLA-4 biology, T-cell exhaustion, dual checkpoint blockade, tumor-infiltrating lymphocyte function, and for benchmarking the therapeutic antibody's mechanism of action in pre-clinical experimental systems.

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 [?utm_source=cr9k1b#tab_references](https://bioxcell.com/?utm_source=cr9k1b#tab_references) or scan the QR code below.



Bio X Cell, LLC

<https://bioxcell.com>

+1-866-787-3444

customerservice@bioxcell.com

Conditions: For research use only. Not for use in diagnostic or therapeutic procedures.

Not for resale.

Bio X Cell, Bio X Cell logo, and all other trademarks are the property of Bio X Cell, LLC © Bio X Cell, LLC