

Technical Data Sheet

InVivoSIM bispecific anti-human CD3 x CEACAM5 (Cibisatamab 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 Website Link: <https://bioxcell.com/invivosim-bispecific-anti-human-cd3-x-ceacam5-cibisatamab-biosimilar-simb0117>

Product Information

Catalog Number: SIMB0117
Clone: Cibisatamab
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Reported Applications: *in vivo* functional assays
in vitro functional assays
ELISA
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: ≤0.5EU/mg (≤0.0005EU/μg)
Determined by LAL 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
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 Cibisatamab biosimilar antibody uses the same variable regions as the therapeutic antibody Cibisatamab, making it ideal for research use. Cibisatamab is a humanized IgG1-based T-cell bispecific antibody in a trivalent 2:1 format, containing two CEACAM5-binding arms and one CD3ε-binding arm. The molecule uses kappa/lambda light-chain architecture with domain crossover engineering to promote correct chain pairing, while its Fc region is engineered to reduce Fcγ receptor and complement binding while retaining Fc-mediated half-life extension. By binding CD3 on T cells and CEACAM5 on tumor cells, Cibisatamab redirects T cells to CEACAM5-expressing tumor cells, promoting immune synapse formation, T-cell activation, cytokine release, and targeted cytotoxicity. This T-cell-engaging mechanism enables potent tumor cell killing independent of native antigen presentation and makes Cibisatamab a valuable model for studying T-cell redirection in solid tumor immunotherapy. CEACAM5 (carcinoembryonic antigen) is highly expressed in a range of epithelial malignancies including colorectal, gastric, pancreatic, and non-small cell lung cancers, while expression in normal adult

tissues is comparatively restricted, making it an attractive tumor-associated antigen. This Cibisatamab biosimilar is well suited for studying T-cell redirection, CEACAM5-targeted tumor killing, solid tumor immunotherapy, and the mechanistic basis of CD3-engaging bispecific antibody therapeutics.

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/inivosim-bispecific-anti-human-cd3-x-ceacam5-cibisatamab-biosimilar-simb0117?utm_source=cr9k1b#tab_references or scan the QR code below.



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