

Technical Data Sheet

Bispecific anti-mouse CD3 x anti-mouse/human BCMA (D265A)



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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: CPB538
Clone: derived from clones 145-2C11 and Ab-2
Isotype: Mouse IgG1 (D265A)
Recommended Isotype Control(s): RecombiMAb mouse IgG1 (D265A) isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Mutations: D265A
Reported Applications: ELISA
For information on in-vivo applications, please contact technicalservice@bioxcell.com
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 mammalian cell supernatant in an animal-free facility
Purification: Protein A
Molecular Weight: 145.7

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

CPB538 is a recombinant 1+1 bivalent T-cell–redirecting bispecific antibody structured after Ertanetamab but designed to simultaneously bind murine CD3ε and mouse/human BCMA (TNFRSF17/CD269). By bringing CD3-positive murine T cells into close proximity with BCMA-expressing target cells, this molecule is intended to promote target-dependent T-cell activation, immune-synapse formation, and cytotoxic elimination of BCMA-positive plasma-cell or myeloma-model targets. The D265A Fc substitution is incorporated to attenuate Fc-mediated interactions—particularly complement activation and Fcγ receptor–dependent effector activity—so that functional activity is driven predominantly by the CD3 × BCMA bridging mechanism rather than nonspecific Fc engagement. Use of a mouse IgG1 isotype prevents anti-drug immune responses in immunocompetent mouse models, enabling more interpretable repeat-dose pharmacology, efficacy, and tolerability studies. This reagent is useful for preclinical evaluation of BCMA-directed T-cell redirection, including target-dependent T-cell activation and cytotoxicity, BCMA-positive plasma-cell or myeloma-cell depletion, and efficacy and tolerability studies in

immunocompetent mouse models expressing mouse or human BCMA.

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.



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