Technical Data Sheet

Bispecific anti-mouse CD3 x anti-mouse CD19 (LALA-PG)

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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/bispecific-anti-mouse-cd3-x-anti-mouse-cd19-lala-pg-cpb537

Product Information

Catalog Number:	**CPB537**
Clone:	**derived from clones 145-2C11 and 1D3**
Isotype:	Mouse IgG2a (LALA-PG), κ
Recommended Isotype Control(s):	Bispecific mouse IgG2a (LALA-PG), kappa isotype control
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Mutations:	LALA-PG
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:	145.2

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

CPB537 is a recombinant 1+1 bivalent T-cell–redirecting bispecific antibody designed to simultaneously bind mouse CD3ε and mouse CD19. By physically engaging CD3-positive effector T cells with CD19-expressing B-lineage target cells, this bispecific is intended to promote localized T-cell activation, immunological synapse formation, and CD19-directed cytotoxic activity in mouse in vitro and in vivo studies. The LALA-PG Fc substitutions eliminate binding to Fcγ receptors and C1q, reducing Fc-mediated effector functions, nonspecific immune-cell engagement, and complement activation while preserving the molecule's target-dependent bridging mechanism. Use of the mouse IgG2a isotype prevents anti-drug immune responses in immunocompetent mouse models, enabling more interpretable repeat-dose pharmacology, efficacy, and tolerability studies. This reagent is suitable for mechanistic studies of T-cell redirection, CD19-positive B-cell depletion,

bispecific-antibody pharmacology, and efficacy or safety evaluation in immunocompetent murine models.

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/bispecific-anti-mouse-cd3-x-anti-mouse-cd19-lala-pg-cpb537?utm_source=cr9k1b#tab_references or scan the QR code below.

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