

# Technical Data Sheet



## Bispecific anti-mouse CD3 x anti-mouse CD20 (LALA-PG)

**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:** CPB502  
**Clone:** Derived from clones 145-2C11 and MB20-11  
**Isotype:** Mouse IgG2a (LALA-PG),  $\kappa$   
**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](mailto:technicalservice@bioxcell.com)  
**Formulation:** PBS, pH 7.0  
Contains no stabilizers or preservatives  
**Endotoxin:**  $\leq 0.5\text{EU/mg}$  ( $\leq 0.0005\text{EU}/\mu\text{g}$ )  
Determined by LAL assay  
**Purity:**  $\geq 95\%$   
Determined by SDS-PAGE  
**Sterility:** 0.2  $\mu\text{m}$  filtration  
**Production:** Purified from mammalian cell supernatant in an animal-free facility  
**Purification:** Protein G  
**RRID:**  
**Molecular Weight:** 145.56 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

CPB502 is a 1+1 symmetric bivalent bispecific structured after Epcoritamab but engineered to simultaneously target mouse CD20 and mouse CD3. CPB502 contains the murine IgG2a constant region to reduce immunogenicity and the formation of anti-drug antibodies (ADAs) in mouse models and LALA-PG Fc-silencing mutations to abolish antibody-dependent cell-mediated cytotoxicity (ADCC) and complement-dependent cytotoxicity (CDC) while minimizing Fc-driven off-target toxicity. This bispecific is designed as a CD20-directed CD3 T-cell engager to promote the activation and recruitment of cytotoxic T-cells to cells expressing murine CD20, resulting in T-cell –mediated killing of CD20+ cells.

### 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/cpb502?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/cpb502?bxcs=9k1b3a#tab_references) or scan the QR code below.



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*Not for resale.*

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