

# Technical Data Sheet

## Bispecific anti-mouse PD-L1 x anti-mouse 4-1BB (LALA-PG)



[bioxcell.com](http://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/bispecific-anti-mouse-pd-l1-x-anti-mouse-4-1bb-lala-pg-cpb525>

### Product Information

**Catalog Number:** CPB525  
**Clone:** 10F.9G2; LOB12.3; CPB525  
**Isotype:** mouse IgG2a (LALA-PG)-scFv,  $\kappa$   
**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:**  $\leq 0.5$  EU/mg ( $\leq 0.0005$  EU/ $\mu$ g)  
Determined by LAL assay  
**Purity:**  $\geq 95\%$   
Determined by SDS-PAGE  
**Sterility:** 0.2  $\mu$ m filtration  
**Production:** Purified from mammalian cell supernatant in an animal-free facility  
**Purification:** Protein A  
**RRID:**  
**Molecular Weight:** 199.8

### 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

CPB525 is a 2+2 tetravalent bispecific structured after Ragistomig but designed to simultaneously target mouse programmed death-ligand 1 (PD-L1, CD274, B7-H1) and mouse 4-1BB (CD137). CPB525 contains a 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 and depletion of checkpoint-expressing effector T cells. This bispecific is engineered to block the PD-L1 checkpoint while delivering conditional 4-1BB co-stimulation in the tumor microenvironment. One arm binds PD-L1 and prevents PD-L1 from engaging PD-1, which removes an inhibitory signal on T

cells. The other arm engages 4-1BB (CD137), a costimulatory receptor that boosts T-cell survival, proliferation, cytokine production, and cytotoxic function. This dual-action design aims to combine checkpoint blockade with immune activation.

## 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-pd-l1-x-anti-mouse-4-1bb-lala-pg-cpb525?utm\\_source=cr9k1b#tab\\_references](https://bioxcell.com/bispecific-anti-mouse-pd-l1-x-anti-mouse-4-1bb-lala-pg-cpb525?utm_source=cr9k1b#tab_references) or scan the QR code below.



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