

**Synonym**

PDL2,PD-L2,Butyrophilin B7-DC,CD273,PDCD1 ligand 2,PDCD1L2,PDCD1LG2

**Source**

Mouse PD-L2, His Tag(PD2-M52E3) is expressed from human 293 cells (HEK293). It contains AA Leu 20 - Arg 219 (Accession # [NP\\_067371](#) ). Predicted N-terminus: Leu 20

**Molecular Characterization**

PD-L2(Leu 20 - Arg 219) NP_067371	Poly-his
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This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 24.4 kDa. The protein migrates as 37-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

**Storage**

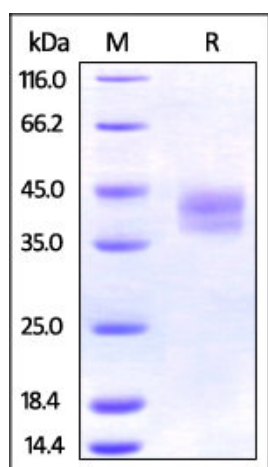
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

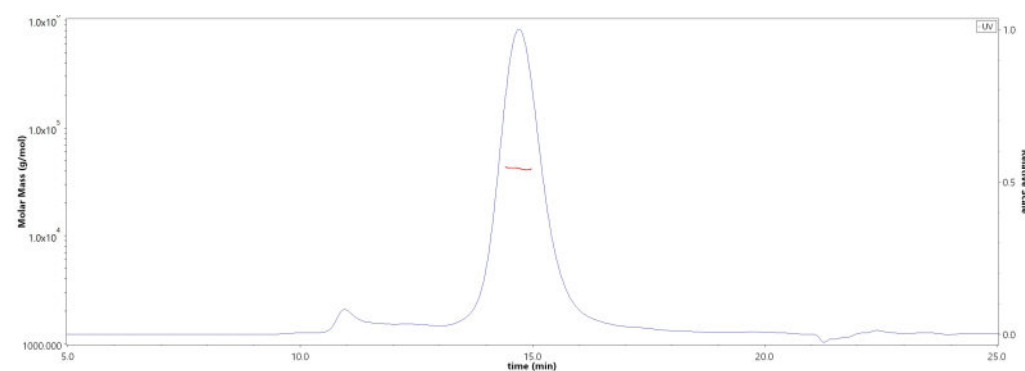
**SDS-PAGE**



Mouse PD-L2, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

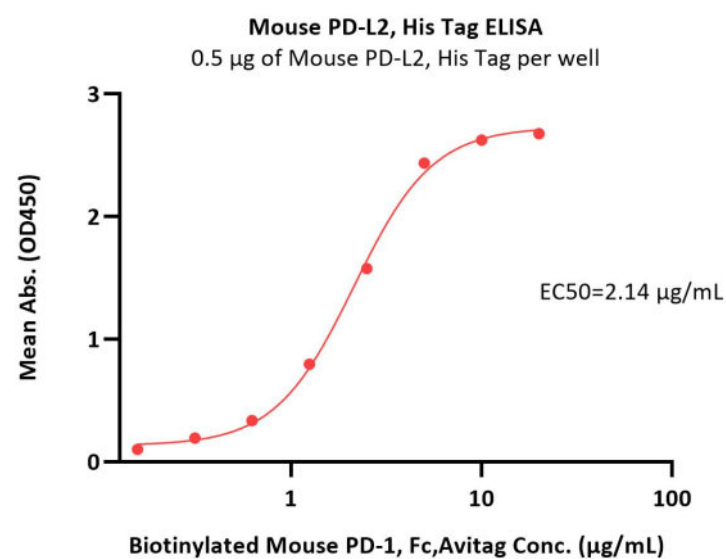
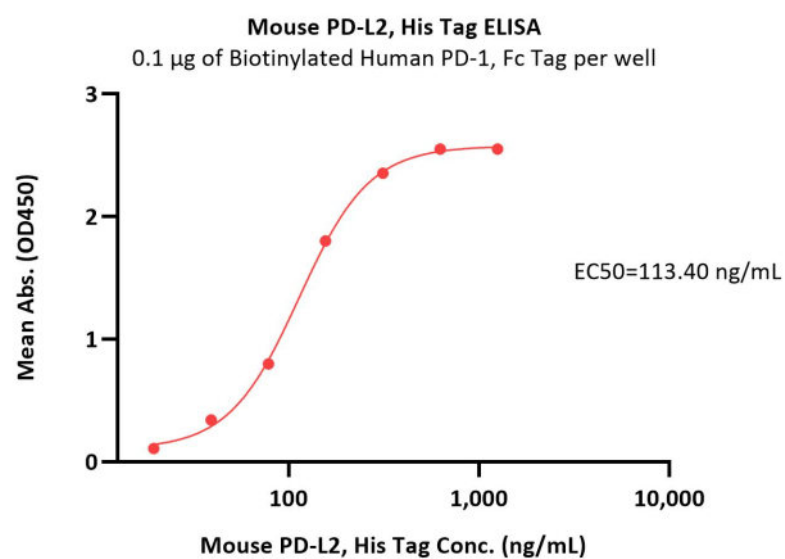
**Bioactivity-ELISA**

**SEC-MALS**



The purity of Mouse PD-L2, His Tag (Cat. No. PD2-M52E3) is more than 90% and the molecular weight of this protein is around 35-45 kDa verified by SEC-MALS.

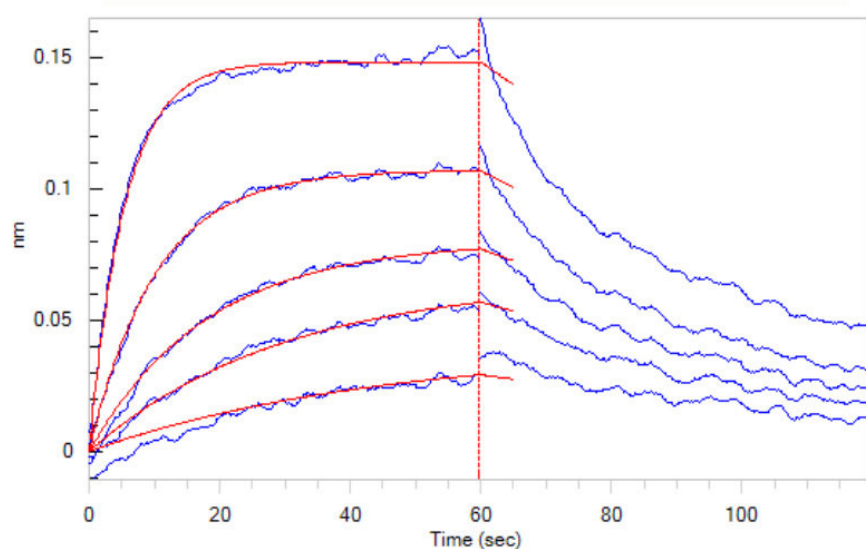
[Report](#)



Immobilized Biotinylated Human PD-1, Fc Tag (Cat. No. PD1-H82F1) at 1 µg/mL (100 µL/well) on streptavidin precoated (0.2 µg/well) plate, can bind Mouse PD-L2, His Tag (Cat. No. PD2-M52E3) with a linear range of 20-156 ng/mL (QC tested).

Immobilized Mouse PD-L2, His Tag (Cat. No. PD2-M52E3) at 5 µg/mL (100 µL/well) can bind Biotinylated Mouse PD-1, Fc, Avitag (Cat. No. PD1-M82F4) with a linear range of 0.156-2.5 µg/mL (Routinely tested).

**Bioactivity-BLI**



Loaded Mouse PD-1, Fc Tag (Cat. No. PD1-M5259) on Protein A Biosensor, can bind Mouse PD-L2, His Tag (Cat. No. PD2-M52E3) with an affinity constant of 0.13 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

**Background**

Programmed cell death 1 ligand 2 (PD-L2 or PDCD1 ligand 2) is also known as Butyrophilin B7-DC, CD antigen CD273, which belongs to the immunoglobulin superfamily or BTN/MOG family. The expression of PD-L2 is up-regulated by IFNG/IFN-gamma stimulation in monocytes and induced on dendritic cells grown from peripheral blood mononuclear cells with CSF2 and IL-4. PD-L2 Involved in the costimulatory signal, essential for T-cell proliferation and IFNG production in a PDCD1-independent manner. PD-L2 interaction with PDCD1 inhibits T-cell proliferation by blocking cell cycle progression and cytokine production.

**Clinical and Translational Updates**

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.