

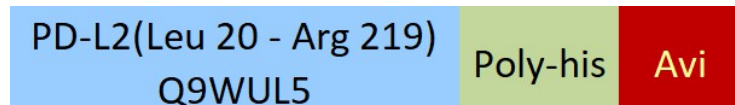
**Synonym**

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

Source

Biotinylated Mouse PD-L2 Protein, His,Avitag(PD2-M82E3) is expressed from human 293 cells (HEK293). It contains AA Leu 20 - Arg 219 (Accession # [Q9WUL5](#)).

Predicted N-terminus: Leu 20

Molecular Characterization

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 26.1 kDa. The protein migrates as 35-43 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>90% as determined by SDS-PAGE.

>95% 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.

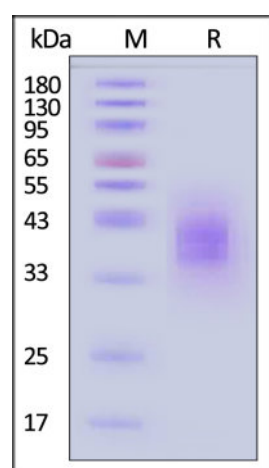
Storage

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

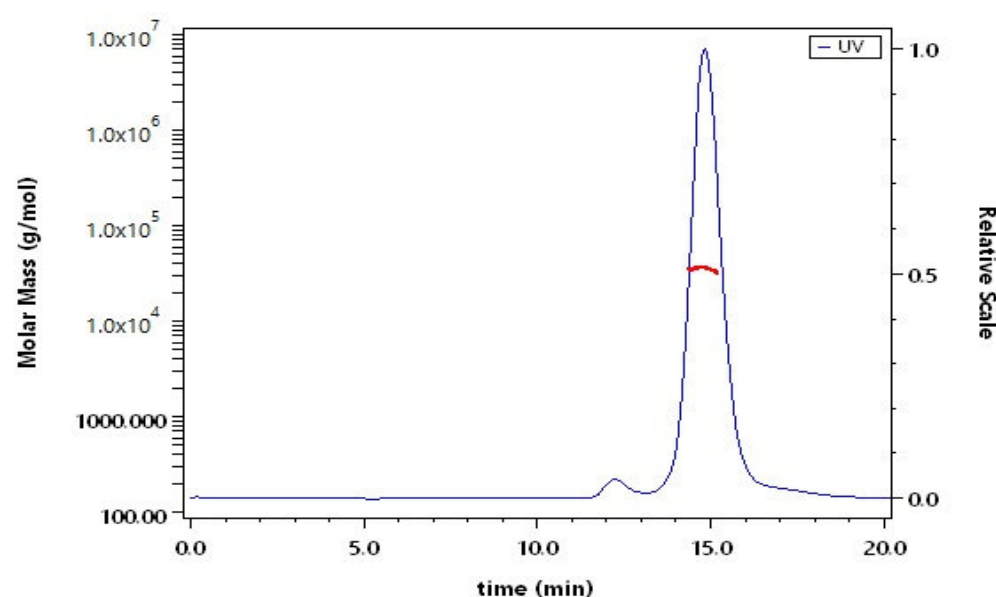
Please avoid repeated freeze-thaw cycles.

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

Biotinylated Mouse PD-L2 Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS

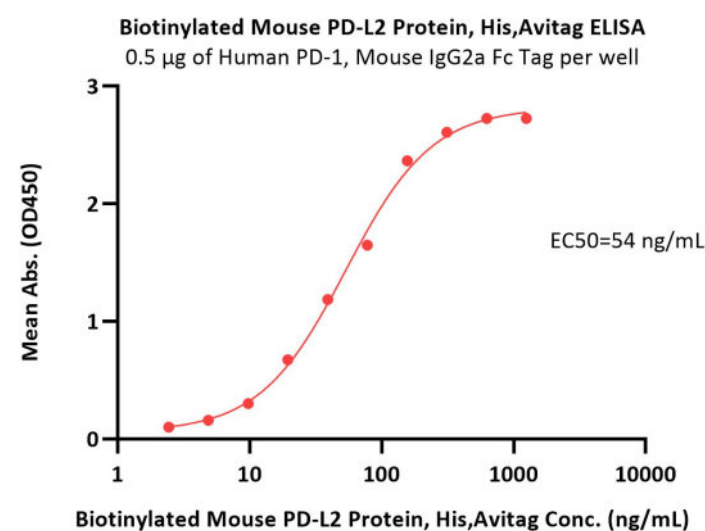
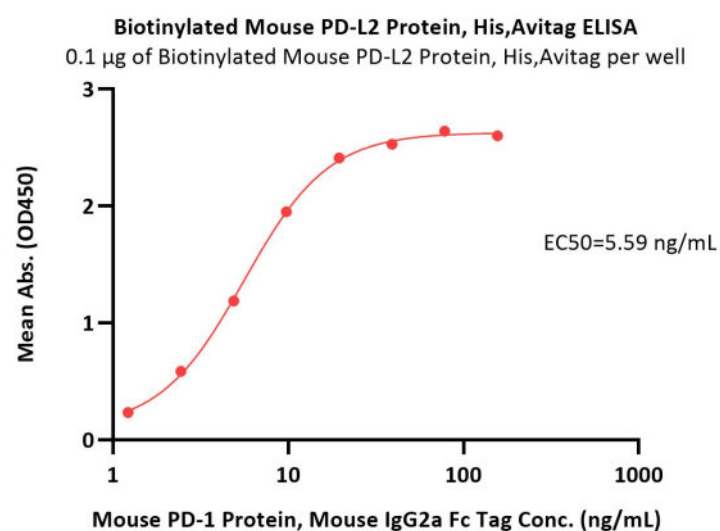
The purity of Biotinylated Mouse PD-L2 Protein, His,Avitag (Cat. No. PD2-M82E3) is more than 95% and the molecular weight of this protein is around 30-40 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-ELISA

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Immobilized Biotinylated Mouse PD-L2 Protein, His,Avitag (Cat. No. PD2-M82E3) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Mouse PD-1 Protein, Mouse IgG2a Fc Tag (Cat. No. PD1-M5257) with a linear range of 1.2-10 ng/mL (QC tested).

Immobilized Human PD-1, Mouse IgG2a Fc Tag (Cat. No. PD1-H5255) at 5 µg/mL (100 µL/well) can bind Biotinylated Mouse PD-L2 Protein, His,Avitag (Cat. No. PD2-M82E3) with a linear range of 2-78 ng/mL (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.

