

**Synonym**

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

**Source**

Biotinylated Human PD-L2, Fc,Avitag(PD2-H82F6) is expressed from human 293 cells (HEK293). It contains AA Leu 20 - Pro 219 (Accession # [Q9BQ51-1](#) ). Predicted N-terminus: Leu 20

**Molecular Characterization**

|                                     |                                 |     |
|-------------------------------------|---------------------------------|-----|
| PD-L2(Leu 20 - Pro 219)<br>Q9BQ51-1 | Fc(Pro 100 - Lys 330)<br>P01857 | Avi |
|-------------------------------------|---------------------------------|-----|

This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™)

The protein has a calculated MW of 51.0 kDa. The protein migrates as 66-91 kDa 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.

**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 Tris with Glycine, Arginine and NaCl, pH7.5 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**

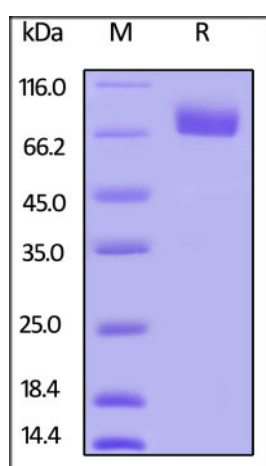
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

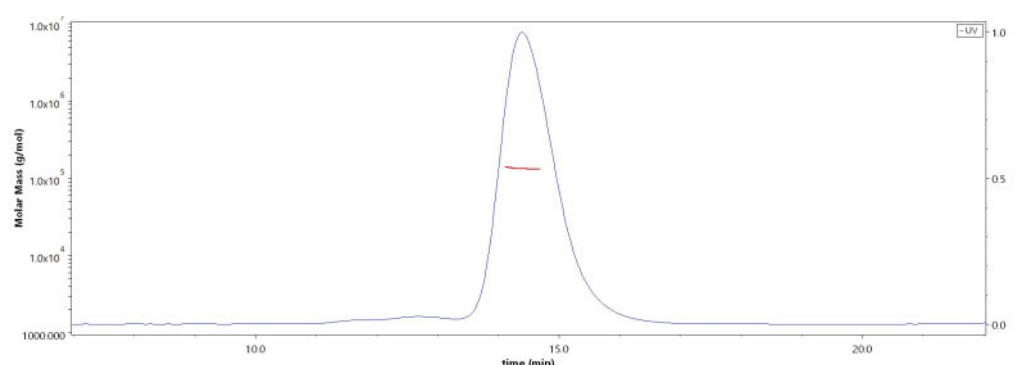
**SDS-PAGE**



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

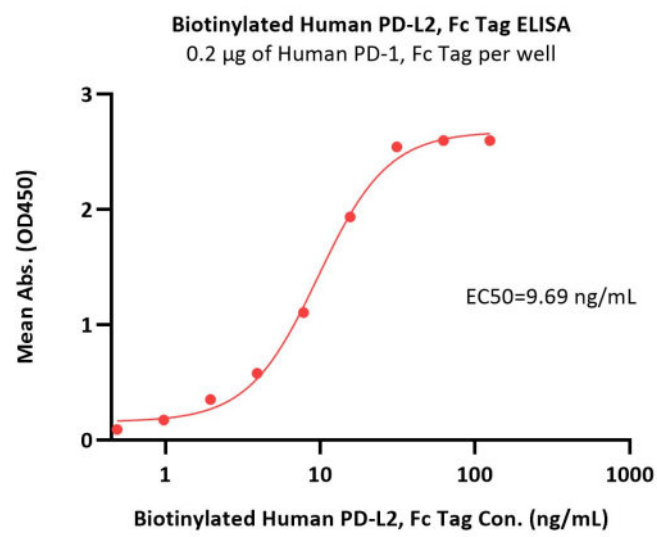
**Bioactivity-ELISA**

**SEC-MALS**



The purity of Biotinylated Human PD-L2, Fc,Avitag (Cat. No. PD2-H82F6) is more than 90% and the molecular weight of this protein is around 120-140 kDa verified by SEC-MALS.

[Report](#)



Immobilized Human PD-1, Fc Tag (Cat. No. PD1-H5257) at 2 µg/mL (100 µL/well) can bind Biotinylated Human PD-L2, Fc,Avitag (Cat. No. PD2-H82F6) with a linear range of 0.5-16 ng/mL (QC 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.