

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.

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

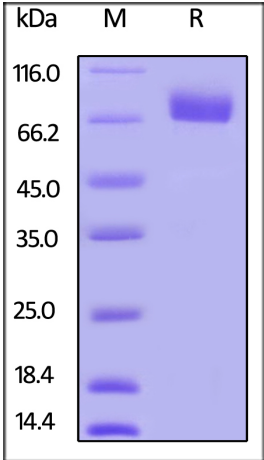
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

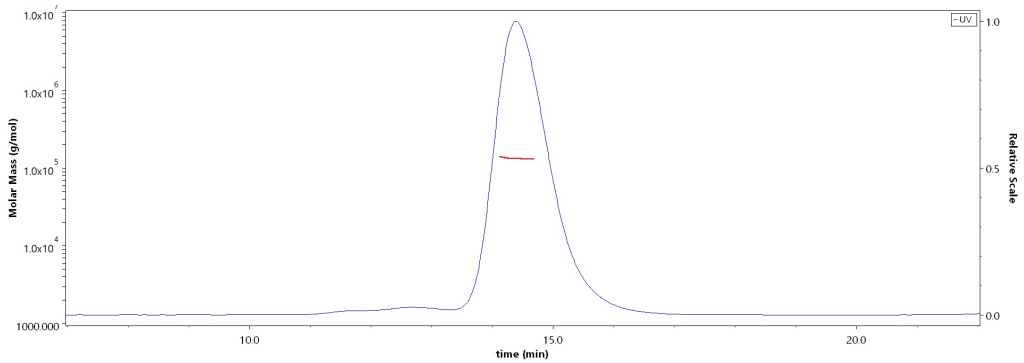
SDS-PAGE



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

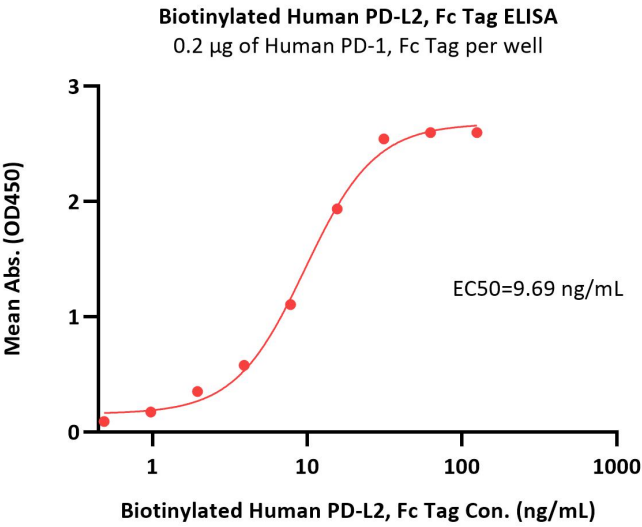
SEC-MALS



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.

