

# Biotinylated Human PD-L1 / B7-H1 (19-134) Protein, His,Avitag™ (recommended for biopanning) (MALS verified)

Catalog # PDL-H82E4



## Synonym

PD-L1,CD274,B7-H1,PDCD1L1,PDCD1LG1

## Source

Biotinylated Human PD-L1 (19-134), His,Avitag(PDL-H82E4) is expressed from human 293 cells (HEK293). It contains AA Phe 19 - Tyr 134 (Accession # [Q9NZQ7-1](#)).

Predicted N-terminus: Phe 19

## Molecular Characterization

PD-L1(Phe 19 - Tyr 134)  
Q9NZQ7-1      Poly-his      Avi

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

The protein has a calculated MW of 16.9 kDa. The protein migrates as 19 kDa and 21 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.

## Application

PDL-H82E4 works best for experiments that test the binding between PD-L1 and candidate antibodies, such as biopanning and other relevant assays.

This product is NOT suitable for testing PD1-PDL1 binding. For this type of application, we strongly recommend you to choose PD1-H82F3 as an alternative.

## Purity

>90% as determined by SDS-PAGE.

## 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

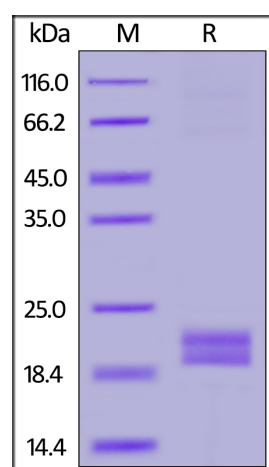
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

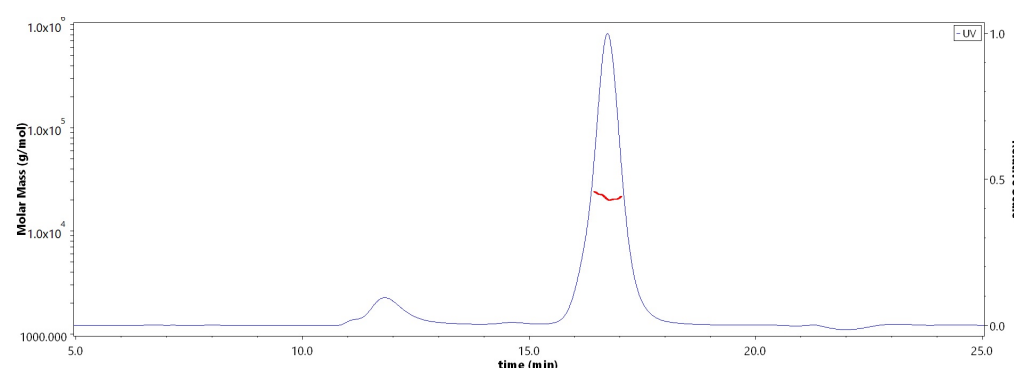
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Biotinylated Human PD-L1 (19-134), 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%.

## SEC-MALS



The purity of Biotinylated Human PD-L1 (19-134), His,Avitag (Cat. No. PDL-H82E4) is more than 85% and the molecular weight of this protein is around 17-25 kDa verified by SEC-MALS.

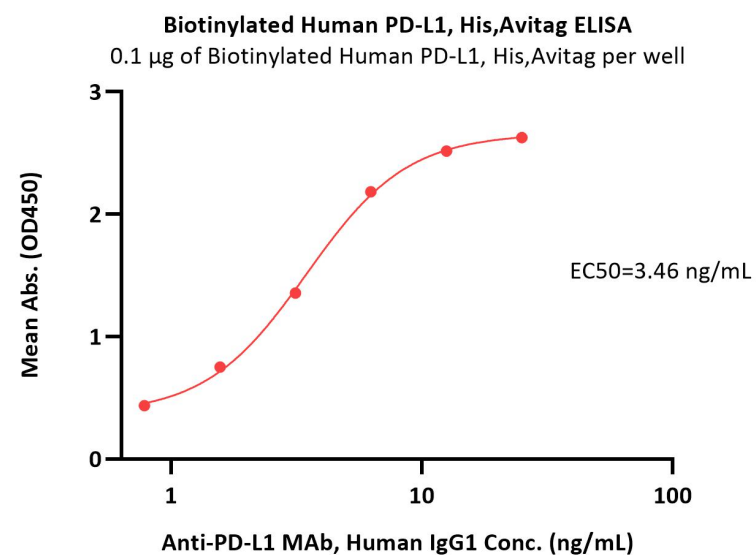
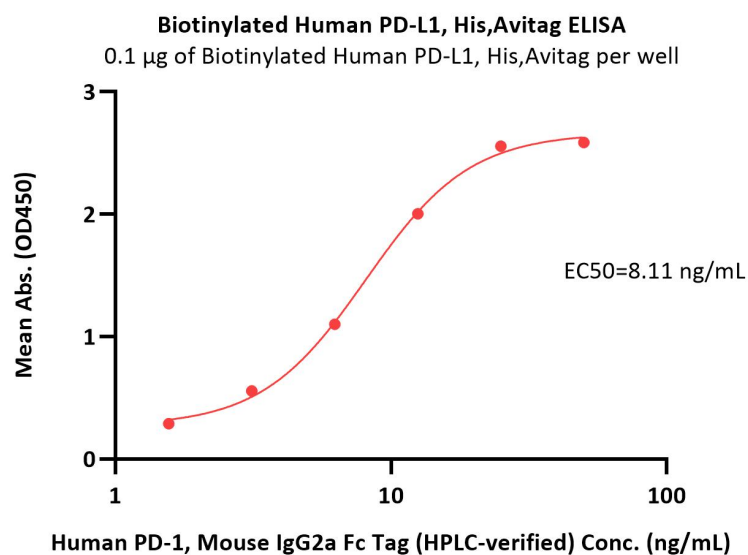
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### Bioactivity-ELISA



Immobilized Biotinylated Human PD-L1, His,Avitag (Cat. No. PDL-H82E4) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate, can bind Human PD-1, Mouse IgG2a Fc Tag (HPLC-verified) (Cat. No. PD1-H5255) with a linear range of 2-13 ng/mL (QC tested).

Immobilized Biotinylated Human PD-L1 (19-134), His,Avitag™ (Cat. No. PDL-H82E4) at 1 µg/mL (100 µL/well) on Streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate, can bind Anti-PD-L1 MAb, Human IgG1 with a linear range of 0.2-6 ng/mL (Routinely tested).

### Background

Programmed cell death 1 ligand 1 (PDL1) is also known as B7-H, B7H1, MGC142294, MGC142296, PD-L1, PDCD1L1 and PDCD1LG1, which is a member of the growing B7 family of immune molecules and is involved in the regulation of cellular and humoral immune responses. PDL1 is a cell surface immunoglobulin superfamily with two Ig-like domains within the extracellular region and a short cytoplasmic domain. This protein is broadly expressed in the majority of peripheral tissues as well as hematopoietic cells. Interaction between PDL1 and its receptors belonging to the CD28 family of molecules provide both stimulatory and inhibitory signals in regulating T cell activation and tolerance. PDL1 may inhibit ongoing T-cell responses by inducing apoptosis and arresting cell-cycle progression.

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