

Biotinylated Mouse PD-L1 / B7-H1 Protein, Fc,Avitag™ (MALS verified)

Catalog # PD1-M82F5



BIOSYSTEMS
Acro

Synonym

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

Source

MABSol® Biotinylated Mouse PD-L1, Fc,Avitag (PD1-M82F5) is expressed from human HEK293 cells. It contains AA Phe 19 - Thr 238 (Accession # [NP_068693](#)).

Predicted N-terminus: Phe 19

Molecular Characterization

PD-L1(Phe 19 - Thr 238)
NP_068693

Fc(Pro 100 - Lys 330)
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 53.2 kDa. The protein migrates as 65-85 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

>95% as determined by SDS-PAGE.

>95% 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.

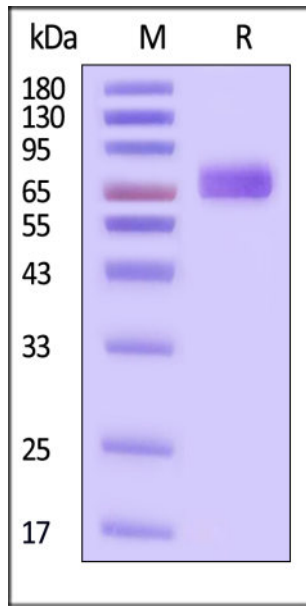
This product is stable after storage at:

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

ACRO Quality Management System

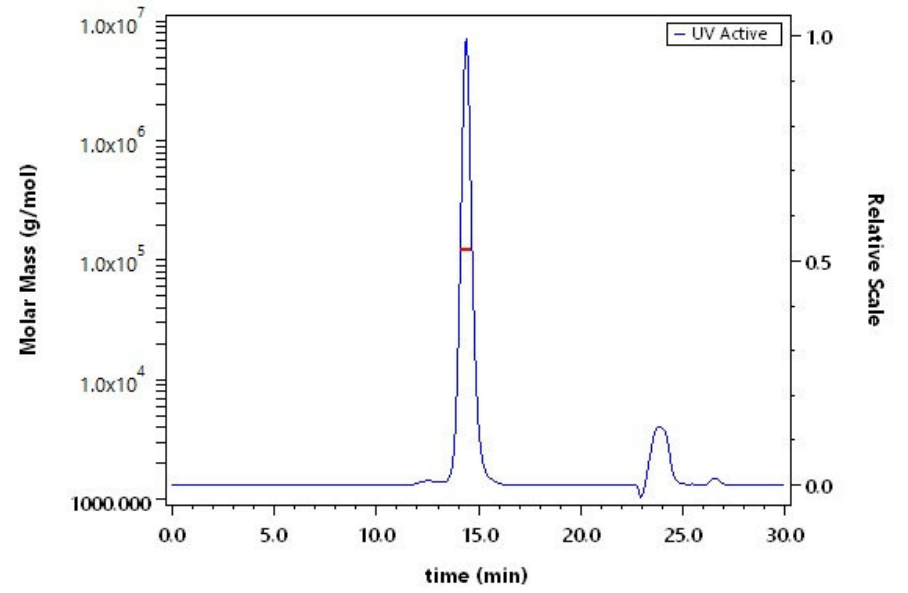
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



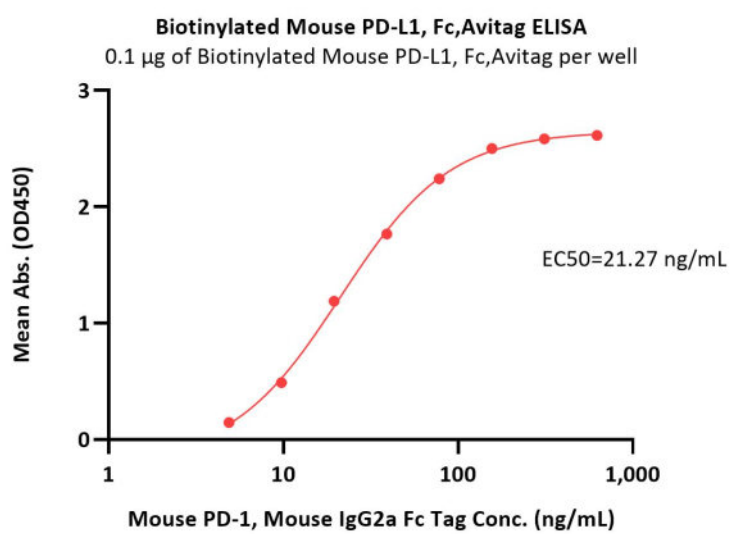
Biotinylated Mouse PD-L1, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Biotinylated Mouse PD-L1, Fc,Avitag (Cat. No. PD1-M82F5) is more than 95% and the molecular weight of this protein is around 115-150 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Biotinylated Mouse PD-L1, Fc,Avitag (Cat. No. PD1-M82F5) 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 5-39 ng/mL (QC 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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