

# Human PD-L1/B7-H1 Protein

Cat. No. PDL-HM210



## Description

<b>Source</b>	Recombinant Human PD-L1/B7-H1 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Phe19-Arg238.
<b>Accession</b>	Q9NZQ7-1
<b>Molecular Weight</b>	The protein has a predicted MW of 52 kDa. Due to glycosylation, the protein migrates to 68-80 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	>95% as determined by Bis-Tris PAGE >95% as determined by HPLC

## Formulation and Storage

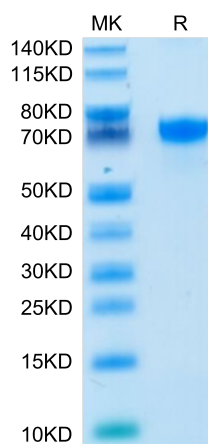
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

B7-H1, also known as PD-L1 and CD274, is an approximately 65 kDa transmembrane glycoprotein in the B7 family of immune regulatory molecules. PD-L1 has been identified as the ligand for the immunoinhibitory receptor programmed death-1 (PD1/PDCD1) and has been demonstrated to play a role in the regulation of immune responses and peripheral tolerance.

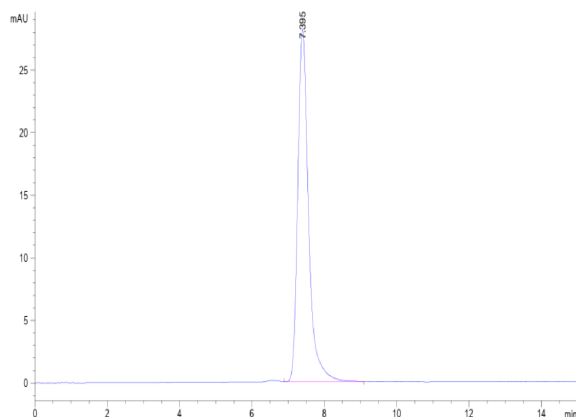
## Assay Data

### Bis-Tris PAGE



Human PD-L1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



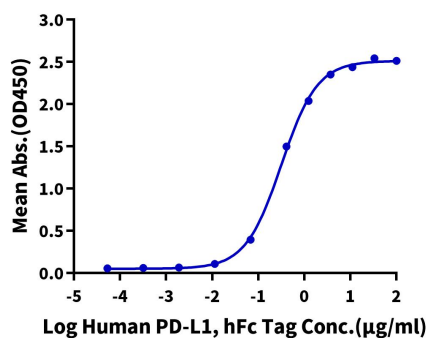
The purity of Human PD-L1 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

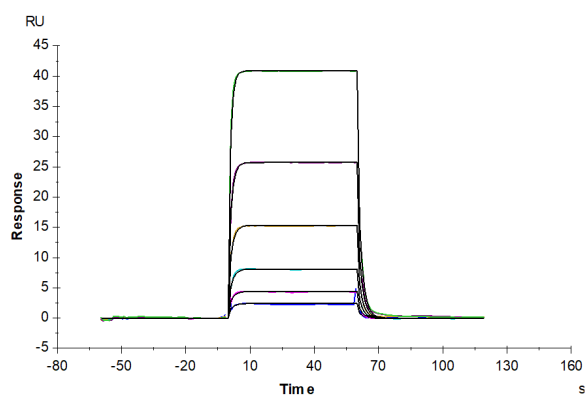
Human PD-L1, hFc Tag ELISA

0.1µg Human PD-1, mFc Tag Per Well



Immobilized Human PD-1, mFc Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Human PD-L1, hFc Tag with the EC50 of 0.17 µg/ml determined by ELISA (QC Test).

SPR Data



Human PD-L1, hFc Tag captured on CM5 Chip via Protein A can bind Human PD-1, His Tag with an affinity constant of 2.20 µM as determined in SPR assay (Biacore T200).