

Biotinylated Human PD-L1/B7-H1 Protein, Ultra Low Endotoxin



Cat. No. PDL-HM410B-UL

Description	
Source	Recombinant Biotinylated Human PD-L1/B7-H1 is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Phe19-Arg238.
Accession	Q9NZQ7-1
Molecular Weight	The protein has a predicted MW of 28.1 kDa. Due to glycosylation, the protein migrates to 35-45 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

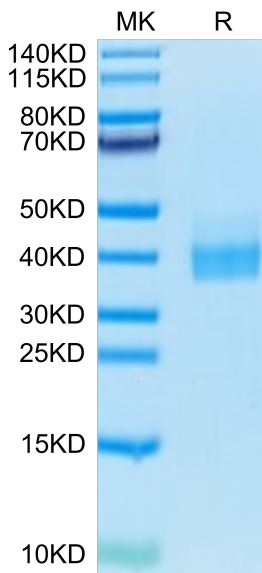
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-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

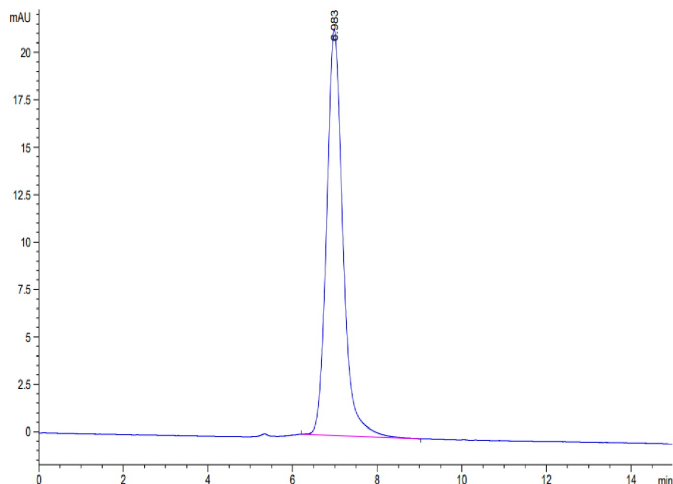
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

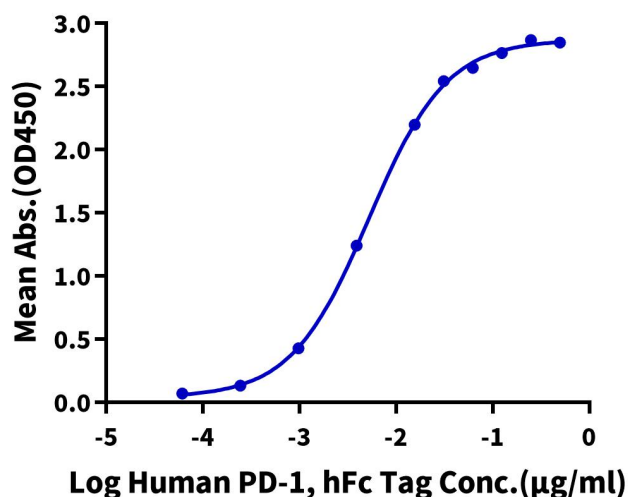


The purity of Biotinylated Human PD-L1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human PD-L1, His Avi Tag ELISA

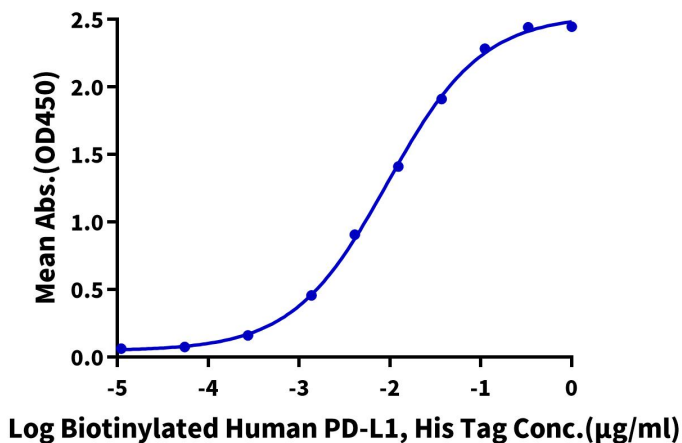
0.1µg Biotinylated Human PD-L1, His Avi Tag Per Well



Immobilized Biotinylated Human PD-L1, His Tag at 1µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human PD-1, hFc Tag with the EC50 of 5.2ng/ml determined by ELISA (QC Test).

Biotinylated Human PD-L1, His Tag ELISA

0.05µg Anti-PD-L1 Antibody, hFc Tag Per Well



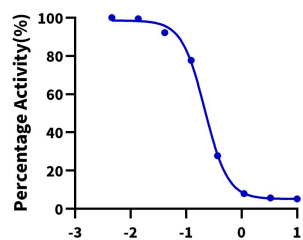
Immobilized Anti-PD-L1 Antibody, hFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human PD-L1, His Tag with the EC50 of 9.4ng/ml determined by ELISA.

Blocking Data

Assay Data

Inhibition of Human PD-1 and Biotinylated Human PD-L1 Binding

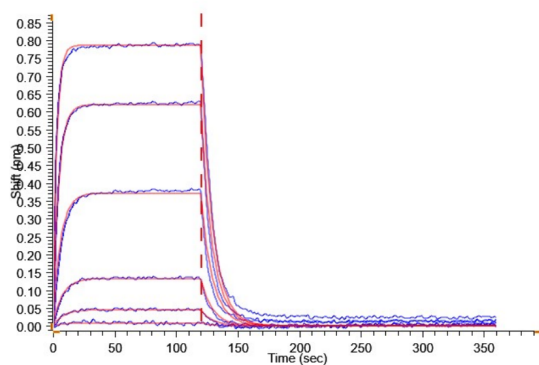
0.5µg Human PD-1, hFc Tag Per Well



Log Anti-PD-1 Antibody, hFc Tag Conc. (µg/ml)

Serial dilutions of Anti-PD-1 Antibody were added into Human PD-1, hFc Tag: Biotinylated Human PD-L1, His Avi Tag binding reactions. The half maximal inhibitory concentration (IC50) is 0.22µg/ml.

BLI Data



Loaded Biotinylated Human PD-L1, His Tag on Streptavidin-Biosensor can bind Human PD-1, His Tag with an affinity constant of 0.94 µM as determined in BLI assay .