

PD-L1 Protein, Human, Recombinant (hFc) V2

General Information

Synonyms:	PDL1;B7-H1;B7-H;CD274 molecule;B7H1;PDCD1L1;PDCD1LG1;PD-L1
Protein Construction:	Phe19-Arg238
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9NZQ7-1
Molecular Weight:	52 kDa (Predicted); 68-80 kDa (Due to glycosylation)

QC Testing

Biological Activity:	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). Human PD-L1, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Human PD-1, His-Avi Tag with an affinity constant of 2.356 µM as determined in SPR assay (Biacore T200).
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
Stability & Storage:	Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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

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programmed death-1(PD1/PDCD1) and has been demonstrated to play a role in the regulation of immune responses and peripheral tolerance.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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