

PD-L1 Protein, Human, Recombinant (hFc & Avi), Biotinylated

General Information

Synonyms:	B7-H1;PDCD1LG1;PD-L1;PDCD1L1;B7 homolog 1;Programmed death ligand 1;B7H1;PDCD1 ligand 1;CD274;PDL1;Programmed Cell Death 1 Ligand 1
Protein Construction:	Phe19-Thr239
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9NZQ7
Molecular Weight:	70-95 KDa (reducing condition)
AA Sequence:	Phe19-Thr239

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Loaded Mouse PD-1-His on HIS1K Biosensor, can bind Biotinylated Human PD-L1-Fc-Avi with an affinity constant of $<10^{-3}>$ nM as determined in BLI assay. (Regularly tested)2. Immobilized Recombinant Human PD-1-His at 5μg/ml (100 μl/well) can bind Human PD-L1-Fc-Avi. The ED50 of Human PD-L1-Fc-Avi is 0.185 μg/ml. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing 20 mM PB, 150 mM NaCl, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CD274, also known as B7-H1 or programmed death ligand 1 (PD-L1), is a 40 kD type I transmembrane protein and

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a member of the B7 family within the immunoglobulin receptor superfamily. Programmed death-1 ligand-1 (PD-L1, CD274, B7-H1) 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. By binding to PD1 on activated T-cells and B-cells, PD-L1 may inhibit ongoing T-cell responses by inducing apoptosis and arresting cell-cycle progression. Accordingly, it leads to growth of immunogenic tumor growth by increasing apoptosis of antigen specific T cells and may contribute to immune evasion by cancers. PD-L1 thus is regarded as promising therapeutic target for human autoimmune disease and malignant cancers.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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