

## PD-L1 Protein, Cynomolgus, Recombinant (His)

## General Information

Synonyms:	B7-H;B7-H1;PDL1;PDCD1L1;PDL1PDCD1 ligand 1;CD274 antigenMGC142294;PDCD1LG1; Programmed death ligand 1;PD-L1B7 homolog 1;CD274 molecule;CD274;PD-L1; programmed cell death 1 ligand 1;B7H1;B7H1PDCD1L1
Protein Construction:	Phe19-Thr239
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	G7PSE7
Molecular Weight:	32-40 KDa (reducing condition)
AA Sequence:	Phe19-Thr239

## QC Testing

Biological Activity:	1. Loaded Cynomolgus PD-L1-His on HIS1K Biosensor, can bind Anti-Human PDL1 mAb-Fc with an affinity constant of $<10^{-3}>$ nM as determined in BLI assay. (Regularly tested) 2. Immobilized Anti-Human PDL1 mAb-Fc at 2 $\mu$ g/ml (100 $\mu$ l/well)can bind Cynomolgus PD-L1-His. The ED50 of Cynomolgus PD-L1-His is 67.12 ng/ml. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS, pH 7.4.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ 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 &amp; 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 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.

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