Data Sheet (Cat.No.TMPJ-00637)

TargetMol

PD-L1 Protein, Cynomolgus, Recombinant (hFc)

General Information

Synonyms:	B7-H;PD-L1B7 homolog 1;Programmed death ligand 1;PD-L1;CD274 antigenMGC142294; B7H1PDCD1L1;PDCD1LG1;PDL1PDCD1 ligand 1;PDCD1L1;CD274;B7-H1;programmed cell death 1 ligand 1;PDL1;CD274 molecule;B7H1
Protein Construction:	Phe19-Thr239
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	G7PSE7
Molecular Weight:	73 KDa (reducing condition)
AA Sequence:	Phe19-Thr239

QC Testing

Biological Activity:	1. Loaded Biotinylated Human PD-1-His-Avi on SA Biosensor, can bind Cynomolgus PD-L1-Fc with an affinity constant of 14.1 nM as determined in BLI assay. (Regularly tested) 2. Immobilized Cynomolgus PD-L1-Fc at 2μg/ml (100 μl/well) can bind Anti-Human PDL1 mAb. The ED50 of Anti-Human PDL1 mAb is 8.15 ng/ml. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm 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 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.

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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