

PD-L1 Protein, Human, Recombinant (aa 19-238, His & Avi), Biotinylated

General Information

Synonyms:	PDL1;PD-L1B7 homolog 1;PD-L1;B7H1;PDCD1L1;B7-H1;CD274;B7-H;PDCD1LG1
Protein Construction:	Phe19-Arg238
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9NZQ7-1
Molecular Weight:	28.1 kDa (predicted). Due to glycosylation, the protein migrates to 35-45 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	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.
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 a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

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.

Reference

Blank C , Mackensen A. Contribution of the PD-L1/PD-1 pathway to T-cell exhaustion: an update on implications for chronic infections and tumor evasion[J]. Cancer Immunology Immunotherapy, 2007, 56(5):739-745.

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