

Biotinylated Recombinant Human B7-H1/PD-L1/CD274 Protein

Catalog No.: RP00328B Recombinant

Sequence Information

SpeciesGene IDSwiss ProtHuman29126Q9NZQ7-1

Tags

C-His&Avi

Synonyms

CD274; PDL1; PD-L1; PD-L1B7 homolog 1;B7-H; B7H1; B7-H1; PDCD1L1; PDCD1LG1

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW Observed MW

28.1 kDa 35-45 kDa

Endotoxin

< 1 EU/ μg of the protein by LAL method.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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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.

Basic Information

Description

Biotinylated Recombinant Human PD-L1/B7-H1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Phe19-Arg238) of Human PD-L1/B7-H1 (Accession #Q9NZQ7-1) fused with a C-His&Avi tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

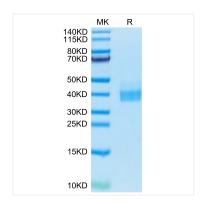
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

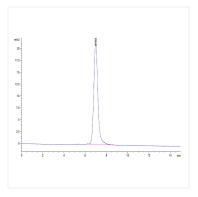
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

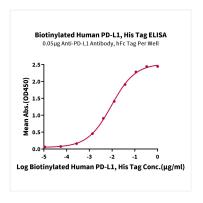
Validation Data



Biotinylated Recombinant Human B7-H1/PD-L1/CD274 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Biotinylated Human PD-L1 is greater than 95% as determined by SEC-HPLC.



Immobilized Anti-PD-L1 Antibody, hFc Tag at 0.5 μ g/mL (100 μ L/Well) on the plate. Dose response curve for Biotinylated Human PD-L1, His Tag with the EC₅₀ of 9.4ng/mL determined by ELISA.