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

Catalog No.: RP02045

Sequence Information

Species
Human

Gene ID
29126

Swiss Prot
Q9NZQ7

Tags
C-mFc

Synonyms
B7-H, B7H1, PDL1, PD-L1, hPD-L1, PDCD1L1, PDCD1LG1,CD274, PDL1,B7H1,PD-L1,PDCD1L1, PDCD1LG1, B7-H, CD274 molecule

Product Information

Source
HEK293 cells

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

Calculated MW
50.9 kDa

Observed MW
68-75 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the tube 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.

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
Recombinant Human CD30 Ligand/TNFSF8 Protein is produced by mammalian expression system. The target protein is expressed with sequence (Phe19-Arg238) of human PD-L1 (Accession #Q9NZQ7) fused with an Fc tag at the C-terminus.

Activity
Immobilized Human PD-L1 at 0.2 μg/mL (100 μL/well), dose response curve for Anti-PD-L1 Ab with the EC_{50} of 1.46 ng/mL determined by ELISA.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

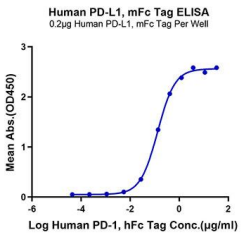
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

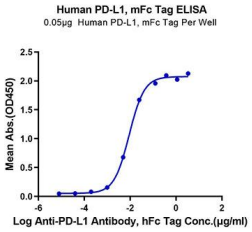
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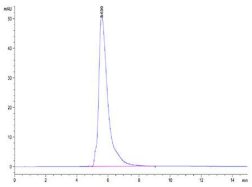
Validation Data



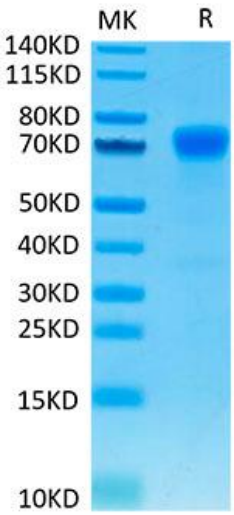
Immobilized Human PD-L1, mFc Tag at 2μg/ml (100μl/Well) on the plate. Dose response curve for Human PD-1, hFc Tag with the EC_{50} of 0.13μg/ml determined by ELISA.



Immobilized Human PD-L1, mFc Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-PD-L1 Antibody, hFc Tag with the EC_{50} of 0.9μg/ml determined by ELISA.



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



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