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

Catalog No.: RP00331

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Sequence Information

Species
Human

Gene ID
29126

Swiss Prot
Q9NZQ7-1

Tags
C-hFc

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

Product Information

Source
HEK293 cells

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

Calculated MW
52 kDa

Observed MW
68-80 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.

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 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-hFc tag at the C-terminus.

Activity

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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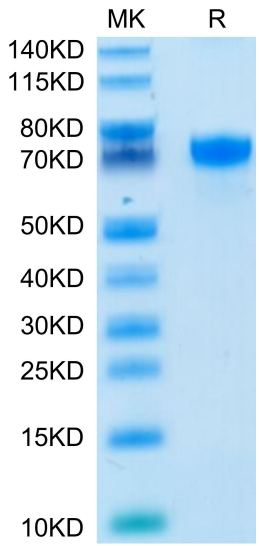
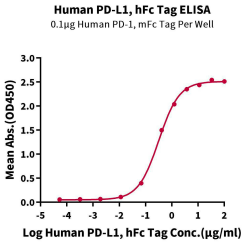
For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

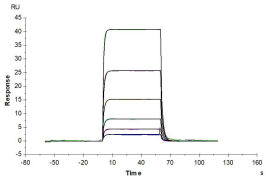
Validation Data



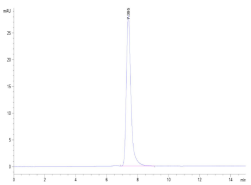
Recombinant Human B7-H1/PD-L1/CD274 Protein was determined by Tris-Bis PAGE under reducing conditions.



Immobilized Human PD-1, mFc Tag at 1 μg/mL (100 μL/well) on the plate. Dose response curve for Human PD-L1, hFc Tag with the EC_{50} of 0.17 μg/mL determined by ELISA (QC Test).



Human PD-L1, hFc Tag captured on CM5 Chip via Protein A can bind Human PD-1, His Tag with an affinity constant of 2.20 μM as determined in SPR assay (Biacore T200).



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