

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

Catalog No.: RP00327

Sequence Information

Species	Gene ID
Human	29126
Swiss Prot	Tags
Q9NZQ7-1	C-His

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

24.93 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 stabilizer
(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-Ile226) of Human PD-L1/B7-H1 (Accession #Q9NZQ7-1) fused with a C-His 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°C

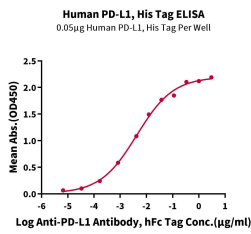
Operational Notes

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

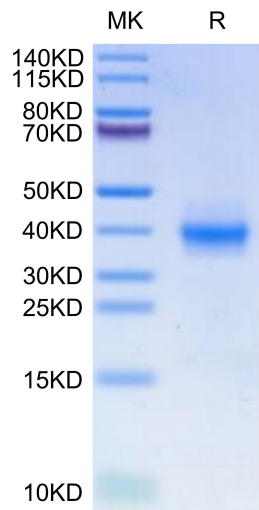
Contact

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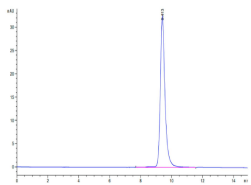
Validation Data



Immobilized Human PD-L1, His Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-PD-L1 Antibody, hFc Tag with the EC₅₀ of 4.3ng/mL determined by ELISA.



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



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