

Recombinant Human PD-L2/B7-DC Protein

Catalog No.: RP00301 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	80380	Q9BQ51

Tags

C-His&Avi

Synonyms

PDL2; PD-L2; Butyrophilin B7-DC; CD273; PDCD1 ligand 2; PDCD1L2; PDCD1LG2; B7DC; bA574F11.2; Btdc

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE > 95% by HPLC

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 freeze-thaw cycles.

Contact

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Background

PD-1 ligand 2 (PD-L2) as a second ligand for PD-1 and compare the function and expression of PD-L1 and PD-L2. Engagement of PD-1 by PD-L2 dramatically inhibits T cell receptor (TCR)-mediated proliferation and cytokine production by CD4 T cells. At low antigen concentrations, PD-L2-PD-1 interactions inhibit strong B7-CD28 signals.

Basic Information

Description

Recombinant Human PD-L2/B7-DC Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu20-Thr220) of Human PD-L2/B7-DC (Accession #Q9BQ51) fused with a C-His&Avi tag at the C-terminus.

Bio-Activity

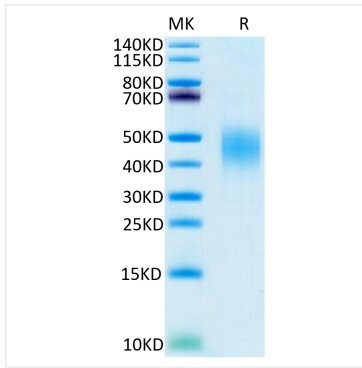
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months.

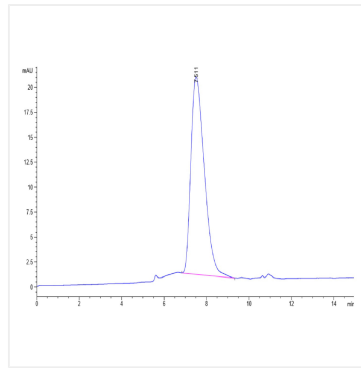
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

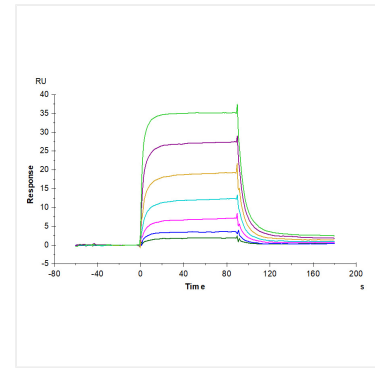
Validation Data



Human PD-L2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human PD-L2 is greater than 95% as determined by SEC-HPLC.



Human PD-1, hFc Tag captured on CM5 Chip via Protein A can bind Human PD-L2, His Tag with an affinity constant of $0.296 \mu\text{M}$ as determined in SPR assay (Biacore T200).