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Recombinant Human B7-DC/PD-L2/CD273 Protein

Catalog No.: RP00988 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	80380	Q9BQ51

Tags
C-hFc&His

Synonyms
B7DC;Btdc;CD273;PD-L2;PDCD1L2;PDL2;bA574F11.2;PDCD1LG2

Background

Programmed Death Ligand 2 (PD-L2), also known as B7-DC and butyrophilin-like protein, is a member of the B7 family of proteins that provide signals for regulating T-cell activation and tolerance .PD-L2 is expressed on dendritic cells, subsets of activated CD4+ and CD8+ T cells, and memory B cells that differentiate into plasma cells. At inflammatory sites such as rheumatoid arthritis, allergen exposure, and virus infection, PD-L2 is up-regulated on synoviocytes, infiltrating macrophages, dendritic cells, and airway epithelial cells. PD-L2, along with B7-H1/PD-L1, binds to T cell PD-1 where it promotes IFN-gamma production and CD40 Ligand up-regulation while inhibiting IL-4 production. In addition, PD-L2 binds to RGM-B on macrophages and alveolar epithelial cells, supporting respiratory immune tolerance. In asthma, PD-L2 suppresses IL-5 and IL-13 production, promotes IL-12 production by dendritic cells, and supports allergen-induced airway hyper-responsiveness and mucus production.

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
49.35 kDa	70 kDa

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

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

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.

Basic Information

Description
Recombinant Human PD-L2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu20-Pro219) of human PD-L2 (Accession #NP_079515.2) fused with an Fc, 6×His tag at the C-terminus.

Bio-Activity
Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human PD-1 at 5 μg/mL (100 μL/well) can bind Recombinant Human PD-L2 with a linear range of 0.06-0.24 μg/mL.

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℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ 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.

Contact

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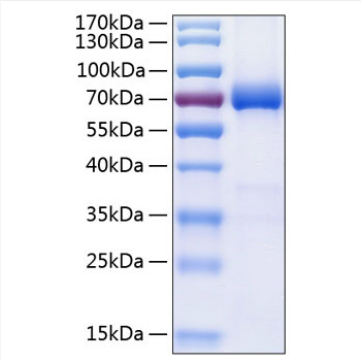
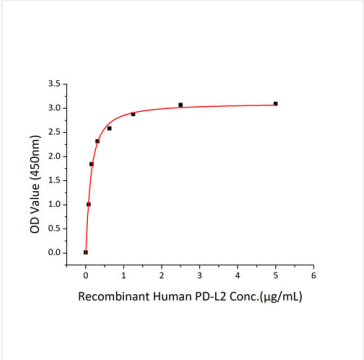
Validation Data



Recombinant Human B7-DC/PD-L2/CD273 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Recombinant Human PD-1 at 5μg/mL (100 μL/well) can bind Recombinant Human PD-L2 with a linear range of 0.06-0.24μg/mL.