

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

**Catalog No.:** RP00150 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	80380	Q9BQ51

### Tags

C-His

### Synonyms

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

## Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.

Calculated MW	Observed MW
23.40 kDa	35-50 kDa

### Endotoxin

&lt; 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## 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.

## Basic Information

### Description

Recombinant Human B7-DC/PD-L2/CD273 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Leu20-Pro219) of human B7-DC/PD-L2/CD273 (Accession #NP\_079515.2) fused with a 6xHis tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human PD-L2 at 5 μg/mL (100 μL/well) can bind Recombinant Human PD-1 with a linear range of 0.3-1.2 μg/mL.

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Storage

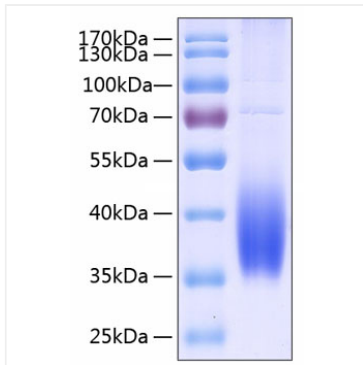
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

### Operational Notes

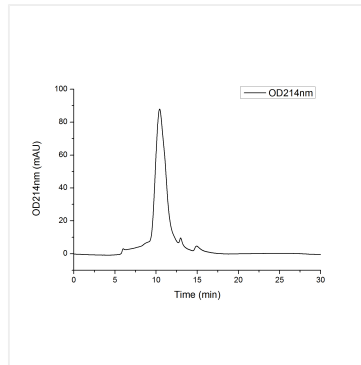
For your safety and health, please wear a lab coat and disposable gloves for handling.



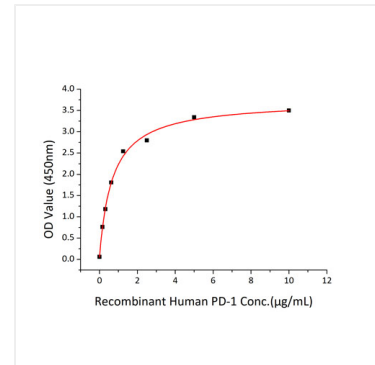
## Validation Data



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



The purity of Human B7-DC/PD-L2/CD273 Protein (Cat.RP00150) was greater than 90% as determined by SEC-HPLC.



Immobilized Recombinant Human PD-L2 at 5μg/mL (100 μL/well) can bind Recombinant Human PD-1 with a linear range of 0.3-1.2 μg/mL.