

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

Catalog No.: RP01666 Recombinant

### **Sequence Information**

**Species Gene ID Swiss Prot**Mouse 58205 Q9WUL5

Tags C-6His

Synonyms

Btdc; B7-DC; PD-L2; F730015022Rik[]PDCD1LG2[]CD273

### **Product Information**

**Source** Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

23.38 kDa 35-45 kDa

#### **Endotoxin**

< 0.1 EU/ $\mu$ g of the protein by LAL method.

#### Formulation

Lyophilized from a 0.22  $\mu m$  filtered solution of PBS, pH 7.4.

### 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.

### **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 Mouse B7-DC/PD-L2/CD273 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu20-Arg219) of mouse B7-DC/PD-L2/CD273 (Accession  $\#NP_067371.1$ ) fused with and a 6×His tag at the C-terminus.

#### **Bio-Activity**

Measured by its binding ability in a functional ELISA. Immobilized Mouse PD-L2 (Catalog: RP01666) at 10  $\mu$ g/mL (100  $\mu$ L/well) can bind Biotinylated Mouse PD-1 with a linear range of 0.019-4.4  $\mu$ g/mL.

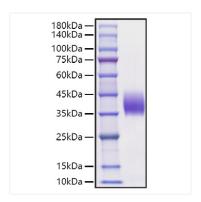
### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

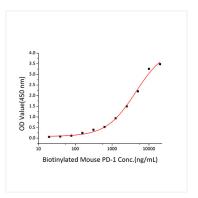
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## **Validation Data**



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



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