

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

Catalog No.: RP01585

Sequence Information

Species **Gene ID**
Mouse 58205

Swiss Prot **Tags**
Q9WUL5 C-hFc

Synonyms

B7-DC, B7DC, bA574F11.2, Btdc, CD273, PD-L2, PDCD1L2, PDL2, PDCD1LG2

Product Information

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

Calculated MW **Observed MW**
48.5 kDa 60-75 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.

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

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-γ 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 a hFc tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse PD-L2 (Catalog: RP01585) at 10 μg/mL (100 μL/well) can bind Biotinylated Mouse PD-1 with a linear range of 19.5-622 ng/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°C

Operational Notes

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

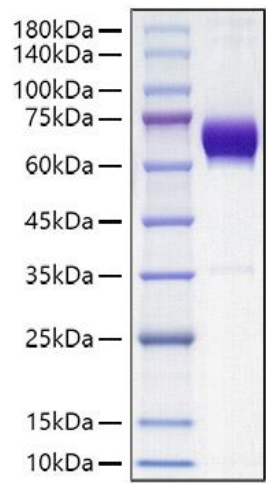
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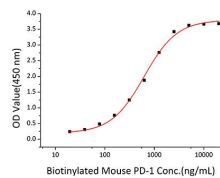
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Validation Data



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



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