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

Tag)

Catalog Number: PKSM040480



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Programmed cell death 1 ligand 2;Pdcd1lg2;PD-1 ligand 2;PD-L2;PDCD1 ligand

2;B7-DC;CD273;Btdc;F730015O22Rik;PD-L2

Species Mouse

Expression Host HEK293 Cells
Sequence Met 1-Arg 219
Accession Q9WUL5
Calculated Molecular Weight 24 kDa
Observed molecular weight 35-45 kDa
Tag C-His

Bioactivity Immobilized mouse PD-L2-his at 10 μg/mL (100 μl/well) can bind mouse PD1-Fc.

The EC50 of mouse PD1-Fc is 1. 63 µg/mL.

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

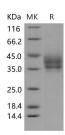
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Programmed death ligand 2 (PD-L2), also referred to as B7-DC and CD273, is a member of the B7 family of proteins including B7-1, B7-2, B7-H2, B7-H1 (PD-L1), and B7-H3. PD-L2 is a type I membrane protein and structurally consists of an extracellular region containing one V-like and one C-like Ig domain, a transmembrane region, and a short cytoplasmic domain. PD-L2 is expressed on antigen presenting cells, placental endothelium and medullary thymic epithelial cells, and can be induced by LPS in B cells, INF-γ in monocytes, or LPS plus IFN-γ in

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dendritic cells. The CD28 and B7 protein families are critical regulators of immune responses. PD-L2 and PD-L1 are two ligands for PD-1, member of the CD28/CTLA4 family expressed on activated lymphoid cells, and thus provide signals for regulating T cell activation and immune tolerance. The interaction of B7-DC/PD-1 exhibited a 2-6-fold higher affinity compared with the interaction of B7-H1/PD-1.

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