

Recombinant Mouse B7-DC/PD-L2/CD273 Protein (Fc Tag)

Catalog Number: PKSM040481



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

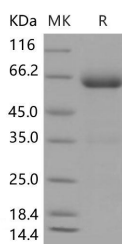
Description

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	49.5 kDa
Observed molecular weight	60 kDa
Tag	C-hFc
Bioactivity	Immobilized human PD1-His at 10 µg/mL (100 µl/well) can bind mouse PD-L2-Fc, The EC50 of mouse PD-L2-Fc is 0.95 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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