Recombinant Human B7-DC/PD-L2/CD273 Protein (His Tag)

Catalog Number: PKSH031704

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

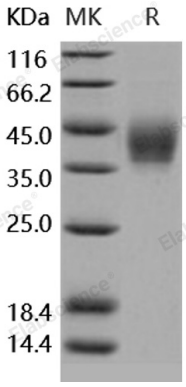
Description

Species	Human
Source	HEK293 Cells-derived Human B7-DC/PD-L2/CD273 protein Met 1-Pro 219, with an C-terminal His
Calculated MW	24 kDa
Observed MW	40-45 kDa
Accession	NP_079515.2
Bio-activity	Immobilized recombinant human PD-L2 at 1 μg/ml (100 μl/well) can bind recombinant human PD1 with a linear range of 7.8-1000 ng/ml.

Properties

Purity	> 98 % 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 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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% Tween 80 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



> 98 % 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 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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