



Recombinant Protein Technical Manual
Recombinant Human B7-DC/PD-L2/CD273 Protein
(His & Fc Tag)(Active)
RPES4709

Product Data:

Product SKU: RPES4709

Size: 100µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_079515.2

Protein Information:

Molecular Mass: 50.4 kDa

AP Molecular Mass: 70-80 kDa

Tag: C-His & Fc

Bio-activity: Measured by its binding ability in a functional ELISA. Immobilized human PD1 at 2 µg/ml (100 µl/well) can bind human PD-L2 with a linear ranger of 0.0064-0.16 µg/ml.

Purity: > 97 % as determined by reducing SDS-PAGE.

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

Storage: 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

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: B7-DC;B7DC;ba574F11.2;Btdc;CD273;PD-L2;PDCD1L2;PDL2

Immunogen Information:

Sequence: Met 1-Pro 219

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, 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 INF- 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, 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 exhibited a 2-6-fold higher affinity compared with the interaction of B7-H1/PD.