

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



Catalog Number:PKSH031704

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

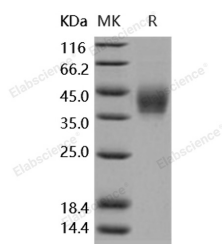
## Description

<b>Synonyms</b>	B7-DC;B7DC;bA574F11.2;Btdc;CD273;PD-L2;PDCD1L2;PDL2
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met 1-Pro 219
<b>Accession</b>	NP_079515.2
<b>Calculated Molecular Weight</b>	24 kDa
<b>Observed molecular weight</b>	40-45 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	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

<b>Purity</b>	> 98 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	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.
<b>Reconstitution</b>	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- $\gamma$ ; in monocytes; or LPS plus IFN- $\gamma$ ; in dendritic cells. The CD28 and B7 protein families are critical regulators of immune responses. PD-L2 and PD-L1 are two

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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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