Human B7-DC / PD-L2 / CD273 Protein (His Tag), Biotinylated
Catalog Number: 10292-H08H-B

General Information

Gene Name Synonym:
B7-DC; B7DC; bA574F11.2; Btdc; CD273; PD-L2; PDCD1L2; PDL2

Protein Construction:
A DNA sequence encoding the extracellular domain (Met1-Pro219) of human PD-L2 (NP_079515.2) was expressed with a C-terminal polyhistidine tag. The purified protein was biotinylated in vitro.

Source: Human
Expression Host: HEK293 Cells

QC Testing
Purity: > 95% as determined by SDS-PAGE.

Bio Activity:
Measured by its ability to bind human PD1-Fch (Cat:10377-H03H) in functional ELISA.

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

Stability:
Samples are stable for up to twelve months from date of receipt at -70 °C.

Predicted N terminal: Leu 20

Molecular Mass:
The recombinant human PD-L2 consists of 211 amino acids and predicts a molecular mass of 24 kDa.

Formulation:
Lyophilized from sterile PBS, pH7.4.

Normally 5% - 8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:
Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:

Protein Description

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-γamma; in monocytes, or LPS plus IFN-γamma; 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.

References