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

Catalog Number: 90249-C02H

General Information

Gene Name Synonym:
PDCD1LG2

Protein Construction:
A DNA sequence encoding the cynomolagus PDCD1LG2(A4GW30) (Met1-Pro219) was expressed with the Fc region of human IgG1 at the C-terminus.

Source: Cynomolagus

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio Activity:
Measured by its binding ability in a functional ELISA. Immobilized human PD1-His (Cat:10377-H08H) at 10 μg/ml (100 μl/well) can bind Cynomolagus PDCD1LG2-Fc (Cat:90249-C02H), The EC50 of Cynomolagus PDCD1LG2-Fc is 30.0-75.0 ng/ml.

Endotoxin:
< 1.0 EU per μg of the 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 cynomolagus PDCD1LG2 is a disulfide-linked homodimer. The reduced monomer comprises 441 amino acids and has a calculated molecular mass of 49.6 KDa. The apparent molecular mass of the protein is approximately 66 KDa respectively in SDS-PAGE.

Formulation:
Lyophilized from sterile PBS, pH 7.4

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-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.

References


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