Recombinant Cynomolgus PDCD1LG2 protein, C-hFc Tag

Product Information

Cat	*IMP-441*
Official Symbol	*PDCD1LG2*
Product Overview	*Recombinant Cynomolgus PDCD1LG2(NP_001077068.1) (Met1-Pro219) was expressed in HEK293, fused with the Fc region of Human IgG1 at the C-terminus.*
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.*
Expression System	*HEK293*
Species	*Cynomolgus*
Tag	*C-hFc Tag*
Predicted N Terminal	*Leu 20*
Form	*Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.*
Molecular Mass	*The recombinant cynomolgus 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.*
Protein length	*Met1-Pro219*
Endotoxin	*< 1.0 EU per μg of the protein as determined by the LAL method*
Purity	*> 95 % as determined by SDS-PAGE*

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Storage	*Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.*
Reconstitution	*It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.*

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