Active Recombinant Human PDCD1LG2, Fc-tagged

Cat. No. PDCD1LG2-169H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human B7-DC /PD-L2 /CD273 Protein, with C-Fc Tag (rhB7-DC / PD-L2 / CD273 Fc Chimera) Leu 20 - Pro 219 (Accession # AAI13679) was produced in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	20-219 a.a.
Description	Programmed cell death 1 ligand 2 (PD-L2 or PDCD1 ligand 2) is also known as Butyrophilin B7-DC, CD antigen CD273, which belongs to the immunoglobulin superfamily or BTN/MOG family. The expression of PD-L2 is up-regulated by IFNG/IFN-gamma stimulation in monocytes and induced on dendritic cells grown from peripheral blood mononuclear cells with CSF2 and IL-4. PD-L2 Involved in the costimulatory signal, essential for T-cell proliferation and IFNG production in a PDCD1-independent manner. PD-L2 interaction with PDCD1 inhibits T-cell proliferation by blocking cell cycle progression and cytokine production.
Form	Lyophilized from 0.22 μm filtered solution in 50 mM tris, 100 mM glycine, pH7.5. Normally Mannitol or Trehalose are added as protectants before lyophilization.
Bio-activity	Measured by its binding ability in a functional ELISA.Immobilized rh B7-DC / PD-L2 / CD273 Fc Chimera at 1 μg/mL (100 μl/well) can bind rhPDCD-1 with a linear range of 7.5 - 500 ng/mL.

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Molecular Mass	rhB7-DC / PD-L2 / CD273 Fc Chimera is fused with a human IgG1 Fc tag at the C-terminus, and has a calculated MW of 49.2 kDa. The predicted N-terminus is Leu 20. DTT-reduced Protein migrates as 60-70 kDa in SDS-PAGE due to glycosylation.
Endotoxin	Less than 1.0 EU per μg of the rhB7-DC / PD-L2 / CD273 Fc Chimera by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC); After reconstitution under sterile conditions for 3 months (-70oC).
Reconstitution	See Certificate of Analysis for reconstitution instructions and specific concentrations.

GENE INFORMATION

Gene Name	PDCD1LG2 programmed cell death 1 ligand 2 [Homo sapiens]
Official Symbol	PDCD1LG2
Synonyms	PDCD1LG2; programmed cell death 1 ligand 2; B7 dendritic cell molecule; B7 DC; bA574F11.2; Btdc; CD273; PD L2; PDL2; B7-DC; PD-1 ligand 2; PD-1-ligand 2; PDCD1 ligand 2; butyrophilin B7-DC; programmed death ligand 2; B7DC; PD-L2; PDCD1L2; MGC142238; MGC142240;
Gene ID	80380
mRNA Refseq	NM_025239
Protein Refseq	NP_079515

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MIM	605723
UniProt ID	Q9BQ51
Chromosome Location	9p24.2
Pathway	Adaptive Immune System, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Costimulation by the CD28 family, organism-specific biosystem; Immune System, organism-specific biosystem; PD-1 signaling, organism-specific biosystem;
Function	molecular_function; protein tyrosine phosphatase activity; receptor activity;

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