

Recombinant Human CD274 Protein (F19-H240), C-6×His tagged

Cat. No. CD274-76H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PD-L1 (CD274) Protein extracellular domain (19-240aa), was expressed in E. coli with C-terminal His tag.
Species	Human
Source	E.coli
ProteinLength	19-240 aa
Description	This gene encodes an immune inhibitory receptor ligand that is expressed by hematopoietic and non-hematopoietic cells, such as T cells and B cells and various types of tumor cells. The encoded protein is a type I transmembrane protein that has immunoglobulin V-like and C-like domains. Interaction of this ligand with its receptor inhibits T-cell activation and cytokine production. During infection or inflammation of normal tissue, this interaction is important for preventing autoimmunity by maintaining homeostasis of the immune response. In tumor microenvironments, this interaction provides an immune escape for tumor cells through cytotoxic T-cell inactivation. Expression of this gene in tumor cells is considered to be prognostic in many types of human malignancies, including colon cancer and renal cell carcinoma. Alternative splicing results in multiple transcript variants.
AA Sequence	MPGFTVTVPKDLVVEYGSNMTIECKFPVEKQLDLAALIVWEMEDKNIIQFVHGEE DLKVQHSSYRQRARLLKDQLSLGNAALQITDVKLQDAGVYRCMISYGGADYKRITVK

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	VNAPYNKINQRILVVDPTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKTTTTNSKR EEKLFNVTSTLRINTTTNEIFYCTFRRLDPEENHTAELVIPELPLAHPNERTHHHHHH
Purity	> 95% by SDS-PAGE
Applications	Research in immunotherapy
Quality Control Test	Verified by disulfide mapping and Mass Spectrometry analysis.
Notes	For research use only
Storage	Avoid repeated freeze-thaw cycles. 12 months at -20 to -80 centigrade. 1 month at 2 to 8 centigrade.
Concentration	0.5 mg/mL
Storage Buffer	Sterile filtered through a 0.2 micron filter in 20 mM Tris buffer at pH8.
GENE INFORMATION	
Gene Name	CD274 CD274 molecule [Homo sapiens (human)]
Official Symbol	CD274
Synonyms	CD274; CD274 molecule; CD274 antigen, PDCD1LG1, programmed cell death 1 ligand 1; programmed cell death 1 ligand 1; B7 homolog 1; B7 H; B7 H1; B7H1; PD L1; PDL1; CD274 antigen; PDCD1 ligand 1; programmed death ligand 1; B7-H; PD-L1; PDCD1L1; PDCD1LG1; MGC142294; MGC142296
Gene ID	29126

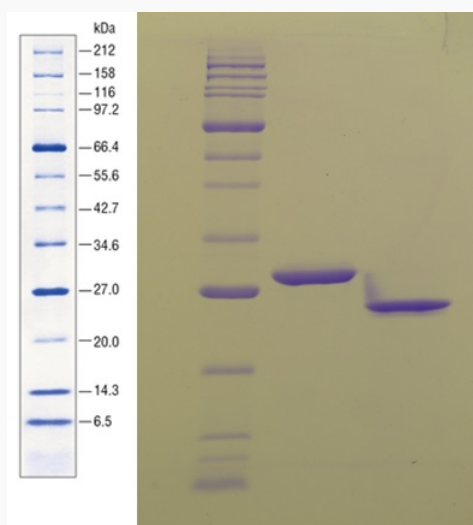
mRNA Refseq NM_014143

Protein Refseq NP_054862

MIM 605402

UniProt ID Q9NZQ7

SDS-PAGE



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