

## Recombinant Human CD274 protein, His tagged

**Cat. No.** CD274-054H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CD274 Protein, was expressed in E. coli with His tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>Programmed cell death 1 ligand 1 (PD-L1, B7-H1, CD274) is a member of the B7 family of cell surface ligands that regulate T cell activation and immune responses. The PD-L1 ligand binds the PD-1 transmembrane receptor and inhibits T cell activation. PD-L1 was discovered following a search for novel B7 protein homologs and was later shown to be expressed by antigen presenting cells, activated T cells, and tissues including placenta, heart, and lung. Similar in structure to related B7 family members, PD-L1 protein contains extracellular IgV and IgC domains and a short, cytoplasmic region. Research studies demonstrate that PD-L1 is expressed in several tumor types, including melanoma, ovary, colon, lung, breast, and renal cell carcinomas. Expression of PD-L1 in cancer is associated with tumor-infiltrating lymphocytes, which mediate PD-L1 expression through the release of interferon gamma. Additional research links PD-L1 expression to cancers associated with viral infections.</p>
<b>Molecular Mass</b>	~30 kDa
<b>AA Sequence</b>	FTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVWEMEDKNIIQFVHG EEDLKV QHSSYRQRARLLKDQLSLGNAALQITDVKLQDAGVYRCMISYGGADYKRITVKVNAP

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YNKINQRILVDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKTTTTNSKREEKLF  
NVTSTLRINTTTNEIFYCTFRRLDPEENHTAELVIPELPLAHPPNER

**Purity**

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

**Notes**

For research use only, not for use in diagnostic procedure.

**Storage**

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

**Storage Buffer**

PBS, 4M Urea, pH7.4

## 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

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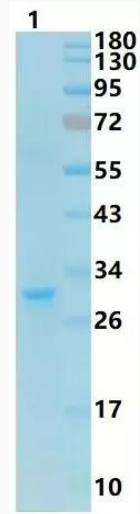
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UniProt ID

Q9NZQ7

SDS-PAGE



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