

# Active Recombinant Human CD274 Protein, His & Fc & Avi-tagged, Biotinylated

**Cat. No.** CD274-365H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human CD274 Protein (NP_054862.1, 19-238aa), was expressed in human 293 cells (HEK293) with C-terminal human IgG1 Fc tag, Avi tag, His tag and biotinylated conjugate.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	19-238 aa
<b>Form</b>	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 10 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.
<b>Bio-activity</b>	<p>Immobilized Human PD-1, Fc Tag at 2 µg/mL (100µL/well) can bind Recombinant Human CD274 Protein, His &amp; Fc &amp; Avi-tagged, Biotinylated with a linear range of 0.01-0.25 µg/mL (QC tested).</p> <p>Immobilized Human B7-1, mouse IgG2a Fc Tag, low endotoxin at 5 µg/mL (100 µL/well) can bind Recombinant Human CD274 Protein, His &amp; Fc &amp; Avi-tagged, Biotinylated with a linear range of 0.02-0.625 µg/mL (Routinely tested).</p> <p>Flow Cytometry assay shows that recombinant Recombinant Human CD274 Protein, His &amp; Fc &amp; Avi-tagged, Biotinylated can bind to 293 cell overexpressing human PD-1. The concentration of PD-L1 used is 1 µg/ml (Routinely tested).</p>

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FACS analysis shows that the binding of Recombinant Human CD274 Protein, His & Fc & Avi-tagged, Biotinylated to 293 overexpressing PD-1 was inhibited by increasing concentration of neutralizing anti-PD-1 antibody. The concentration of PD-L1 used is 2µg/ml. The IC50 is 0.64 µg/ml (Routinely tested).

Immobilized cell surface PD-1(5x10<sup>4</sup> of cells per well) can bind Recombinant Human CD274 Protein, His & Fc & Avi-tagged, Biotinylated with an EC50 of 0.082ug/ml (Routinely tested).

**Molecular Mass** 53.2 kDa

**Endotoxin** Less than 1.0 EU per µg by the LAL method.

**Purity** >95% as determined by SDS-PAGE.

**Notes** Please avoid repeated freeze-thaw cycles.

**Stability** No activity loss is observed after storage at:  
4-8 centigrade for 12 months in lyophilized state;  
-70 centigrade for 3 months under sterile conditions after reconstitution.

**Storage** For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

**Conjugation** Biotin

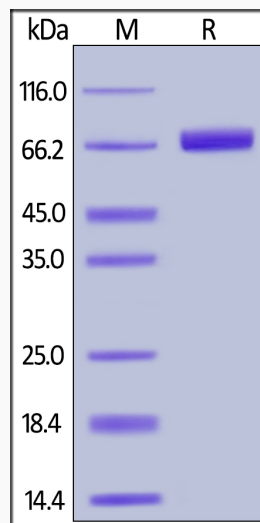
## GENE INFORMATION

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<b>Gene Name</b>	CD274 CD274 molecule [ Homo sapiens ]
<b>Official Symbol</b>	CD274
<b>Synonyms</b>	CD274; CD274 molecule; B7 homolog 1; B7 H; B7 H1; B7H1; PD L1; PDL1; CD274 antigen; PDCD1 ligand 1; B7-H; PD-L1; PDCD1L1; PDCD1LG1; MGC142294; MGC142296;
<b>Gene ID</b>	29126
<b>mRNA Refseq</b>	NM_014143
<b>Protein Refseq</b>	NP_054862
<b>MIM</b>	605402
<b>UniProt ID</b>	Q9NZQ7



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