

# Recombinant Human CD274 Protein (Met1-Thr239), HlgG1 Fc-tagged, Biotinylated

**Cat. No.** CD274-339H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

Recombinant Human CD274 Protein (NP\_054862.1, 1-239aa), was expressed in HEK293 Cells with C-terminal human IgG1 Fc tag and biotinylated conjugate.

### Species

Human

### Source

HEK293

### ProteinLength

1-239 aa

### Description

Programmed death-1 ligand-1 (PD-L1, CD274, B7-H1) has been identified as the ligand for the immunoinhibitory receptor programmed death-1 (PD1/PDCD1) and has been demonstrated to play a role in the regulation of immune responses and peripheral tolerance. PD-L1/B7-H1 is a member of the growing B7 family of immune molecules and this protein contains one V-like and one C-like Ig domain within the extracellular domain, and together with PD-L2, are two ligands for PD1 which belongs to the CD28/CTLA4 family expressed on activated lymphoid cells. By binding to PD1 on activated T-cells and B-cells, PD-L1 may inhibit ongoing T-cell responses by inducing apoptosis and arresting cell-cycle progression. Accordingly, it leads to growth of immunogenic tumor growth by increasing apoptosis of antigen specific T cells and may contribute to immune evasion by cancers. PD-L1 thus is regarded as promising therapeutic target for human autoimmune disease and malignant cancers.

### Predicted N Terminal

Phe 19

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<b>Form</b>	Lyophilized from sterile Sterile PBS. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Molecular Mass</b>	The recombinant human CD274 consists of 459 amino acids and predicts a molecular mass of 52 kDa.
<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE.
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
<b>Storage</b>	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	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°C before opening to recover the entire contents.
<b>Shipping</b>	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.
<b>Conjugation</b>	Biotin
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	CD274 CD274 molecule [ Homo sapiens ]
<b>Official Symbol</b>	CD274

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<b>Synonyms</b>	CD274; CD274 molecule; 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>	<a href="#">29126</a>
<b>mRNA Refseq</b>	<a href="#">NM_014143</a>
<b>Protein Refseq</b>	<a href="#">NP_054862</a>
<b>MIM</b>	<a href="#">605402</a>
<b>UniProt ID</b>	<a href="#">Q9NZQ7</a>

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