

# Active Recombinant Human CD274 protein(Met1-Thr239), hFc-tagged

**Cat. No.** CD274-2330H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant Human CD274 protein(NP_054862.1)(Met1-Thr239), fused with C-terminal hFc tag, was expressed in HEK293.   |
| <b>Source</b>           | HEK293   |
| <b>Species</b>          | Human  |
| <b>Tag</b>              | C-hFc  |
| <b>Protein length</b>   | Met1-Thr239  |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.   |
| <b>Bio-activity</b>     | 1. Immobilized human PD-1 at 2 µg/ml (100 µl/well) can bind human B7-H1, the EC50 of human B7-H1 is 150-600 ng/mL. 2. Using the Octet RED System, the affinity constant (Kd) of PD-L1 Protein, Human, Recombinant (Fc Tag) bound to Atezolizuma was 0.5 nM.  |
| <b>Molecular Mass</b>   | The recombinant mature human B7-H1/Fc is a disulfide-linked homodimeric protein. The reduced monomer consists of 459 amino acids and predicts a molecular mass of 52 kDa. As a result of glycosylation, the human B7-H1/Fc monomer migrates as an approximately 65-70 kDa protein in SDS-PAGE under reducing conditions. |

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| <b>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method   |
| <b>Purity</b>           | > 95 % as determined by SDS-PAGE   |
| <b>Storage</b>          | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. 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 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.  |
| <b>GENE INFORMATION</b> |  |
| <b>Gene Name</b>        | CD274 CD274 molecule [ <i>Homo sapiens</i> ]   |
| <b>Official Symbol</b>  | CD274  |
| <b>Synonyms</b>         | 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; |
| <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   |