

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

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

SPECIFICATION

Product Overview	Recombinant Human CD274 protein(NP_054862.1)(Met1-Thr239), fused with C-terminal hFc tag, was expressed in HEK293.
Source	HEK293
Species	Human
Tag	C-hFc
Protein length	Met1-Thr239
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	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.
Molecular Mass	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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Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Storage	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.
Reconstitution	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.

GENE INFORMATION

Gene Name	CD274 CD274 molecule [Homo sapiens]
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

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