Active Recombinant Human PDCD1 protein, His-tagged

Cat. No. PDCD1-2173H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDCD1 protein(NP_005009.2)(Met1-Gln167), fused with His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Met1-Gln167
Form	Lyophilized from sterile 50mM MOPS, 500mM NaCl, pH 7.0Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Bio-activity	1. Immobilized human PD-1 at 2 μg/ml (100 μl/well) can bind PD-L1 Protein, Human, Recombinant (ECD, hFc Tag), the EC50 of human B7-H1 is 150-600 ng/mL. 2. Immobilized human PD-1 at 2 μg/mL (100 μL/well) can bind Anti-PDCD1(MDX)-IgG4 Antibody (Nivolumab), the EC50 is 8-60 ng/mL.3. Labeled biotin to PD-1 Protein, Human, Recombinant (His Tag) by a certain molar ratio; Using the Octet RED System, the affinity constant (Kd) of PD-1 Protein, Human, Recombinant (His Tag), Biotinylated bound to Keytruda was 0.1 nM.
Molecular Mass	The recombinant mature human PDCD1 consists of 154 amino acids and has a calculated molecular mass of 17.4 kDa. As a result of glycosylation, human PDCD1 migrates as an approximately 41.1 kDa protein in SDS-PAGE under reducing

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	conditions.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE. > 90 % as determined by SEC-HPLC.
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.

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