

HUMAN PD-1 PROTEIN, HIS TAG

Cat.#: 11273

Product Name: Human PD-1 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: PDCD1;PD1;CD279;SLEB2

Target: PD-1

UNIPROT ID: Q15116

Description: Recombinant human PD-1 protein with C-terminal 6xHis tag

Background: This protein is expressed in pro-B-cells and is thought to play a role in their differentiation. In mice, expression of this gene is induced in the thymus when anti-CD3 antibodies are injected and large numbers of thymocytes undergo apoptosis. Mice deficient for this gene bred on a BALB/c background developed dilated cardiomyopathy and died from congestive heart failure. These studies suggest that this gene product may also be important in T cell function and contribute to the prevention of autoimmune diseases.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 16.8 kDa after removal of the signal peptide.

Molecular Characterization: PD-1(Leu25-Gln167) 6×His tag

Purity: The purity of the protein is greater than 90% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

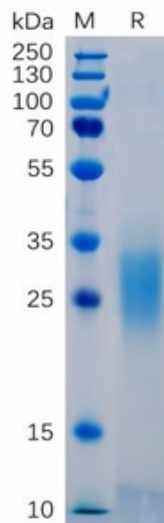


Figure 1. Human PD-1 Protein, His Tag on SDS-PAGE under reducing condition.

Human PD-1, His Tagged protein ELISA

0.2 μ g of Human PD-1, His tagged protein per well

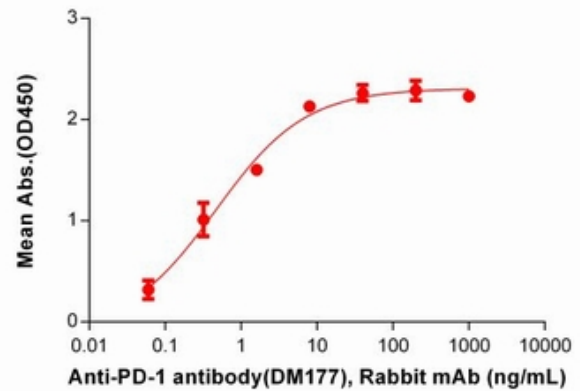


Figure 2. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) Human PD-1 Protein, His tag (11273) can bind Anti-PD-1 antibody(DM177), Rabbit mAb in a linear range of 0.06-1.60 ng/mL.