

## HUMAN PD-1 PROTEIN, HIS TAG

**Cat.#:** 11273

**Product Name:** Human PD-1 Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** PDCDI;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.

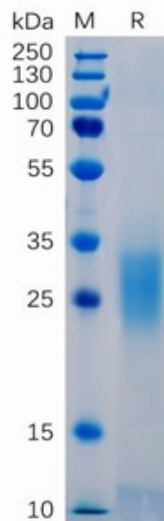


Figure 1. Human PD-1 Protein, His Tag on SDS-PAGE under reducing condition.

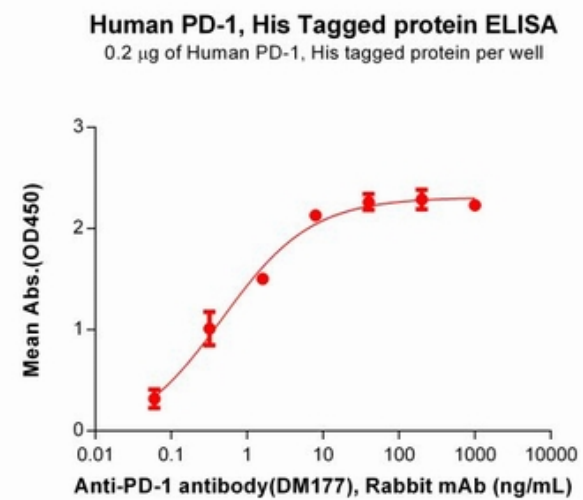


Figure 2. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) Human PD-1 Protein, His tag (11273) can bind Anti-PD-1 antibody (DM177), Rabbit mAb in a linear range of 0.06-1.60 ng/mL.