

MOUSE PD-1 PROTEIN, HFC TAG**Cat.#:** 12221**Product Name:** Mouse PD-1 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** Pdcd1;Pdc1;Ly101**Target:** PD-1**UNIPROT ID:** Q02242**Description:** Recombinant mouse PD-1 protein with C-terminal human Fc tag**Background:** Involved in negative regulation of immune response. Acts upstream of or within negative regulation of apoptotic process; negative regulation of tolerance induction; and positive regulation of apoptotic process. Located in external side of plasma membrane. Is expressed in retina. Used to study dilated cardiomyopathy and systemic lupus erythematosus. Human ortholog(s) of this gene implicated in autoimmune disease (multiple); hepatitis B; hepatitis C; hepatocellular carcinoma; and lupus nephritis. Orthologous to human PDCD1 (programmed cell death 1). [provided by Alliance of Genome Resources, Apr 2022]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 42.3 kDa after removal of the signal peptide. The apparent molecular mass of mPD-1-hFc is approximately 35–70 kDa due to glycosylation.**Molecular Characterization:** Mouse PD-1(Leu25–Gln167) hFc(Glu99–Ala330)**Purity:** The purity of the protein is greater than 95% 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. Mouse PD-1 Protein, hFc Tag on SDS-PAGE under reducing condition.