

MOUSE B7-2 PROTEIN, HFC TAG**Cat.#:** 12170**Product Name:** Mouse B7-2 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** CD86;ETC-1**Target:** B7-2**UNIPROT ID:** P42082**Description:** Recombinant mouse B7-2 protein with C-terminal human Fc tag**Background:** This gene encodes a type I membrane protein that is a member of the immunoglobulin superfamily. This protein is expressed by antigen-presenting cells, and it is the ligand for two proteins at the cell surface of T cells, CD28 antigen and cytotoxic T-lymphocyte-associated protein 4. Binding of this protein with CD28 antigen is a costimulatory signal for activation of the T-cell. Binding of this protein with cytotoxic T-lymphocyte-associated protein 4 negatively regulates T-cell activation and diminishes the immune response. Alternative splicing results in several transcript variants encoding different isoforms.**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 51.4 kDa after removal of the signal peptide. The apparent molecular mass of mB7-2-hFc is approximately 55–70 kDa due to glycosylation.**Molecular Characterization:** Mouse B7-2(Val24–Glu245) 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.

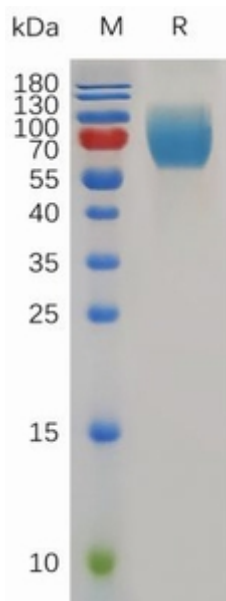


Figure 1. Mouse B7-2 Protein, hFc Tag on SDS-PAGE under reducing condition.