

## HUMAN B7-2 PROTEIN, MFC-HIS TAG

**Cat.#:** 11162

**Product Name:** Human B7-2 Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** CD86;B7-2;B70;CD28LG2;LAB72;MGC34413

**Target:** B7-2

**UNIPROT ID:** P42081

**Description:** Recombinant human B7-2 protein with C-terminal mouse Fc and 6xHis 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 52.4 kDa after removal of the signal peptide.

**Molecular Characterization:** B7-2(Leu26-Pro247) mFc(Pro99-Lys330)  
6xHis tag

**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.

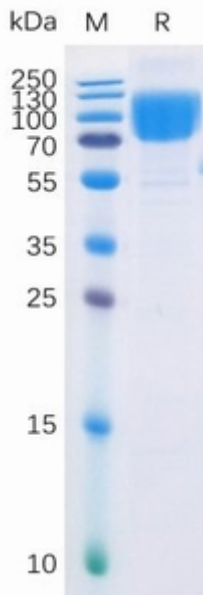


Figure 1. Human B7-2 Protein, mFc-His Tag on SDS-PAGE under reducing condition.