

HUMAN B7-H2 PROTEIN, MFC-HIS TAG

Cat.#: 11157

Product Name: Human B7-H2 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: ICOSLG;B7-H2;B7H2;B7RP-1;B7RP1;CD275;GL50;ICOS-L;ICOSL;LICOS;ICOS ligand

Target: B7-H2

UNIPROT ID: O75144

Description: Recombinant human B7-H2 protein with C-terminal mouse Fc and 6xHis tag

Background: Inducible co-stimulator ligand (ICOSL), also known as B7-H2, is a member of the B7 family of co-stimulatory molecules related to B7-1 and B7-2. The protein is the ligand for the T-cell-specific cell surface receptor ICOS. Acts as a costimulatory signal for T-cell proliferation and cytokine secretion, induces also B-cell proliferation and differentiation into plasma cells. Could play an important role in mediating local tissue responses to inflammatory conditions, as well as in modulating the secondary immune response by co-stimulating memory T-cell function

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 53.9 kDa after removal of the signal peptide.

Molecular Characterization: B7H2(Asp19-Thr256) mFc(Pro99-Lys330) 6×His 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.

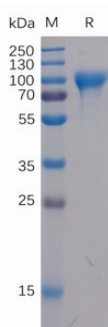


Figure 1. Human B7H2 Protein, mFc-His Tag on SDS-PAGE under reducing condition.

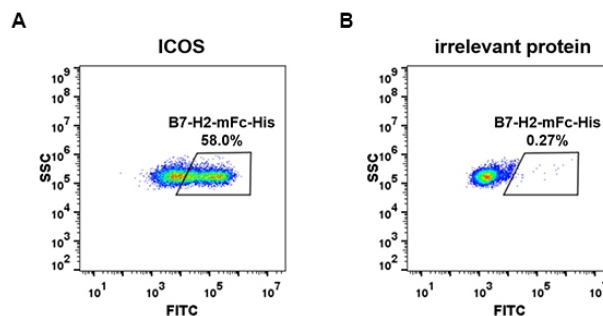


Figure 2. HEK293 cell line transfected with irrelevant protein (B) and human ICOS (A) were surface stained with Human B7-H2, mFc-His tagged protein (11157) 1µg/ml followed by Alexa 488-conjugated anti-mouse IgG secondary antibody.

Human B7-H2, mFc-His tagged protein ELISA

0.1 µg of Human B7-H2, mFc-His tagged protein per well

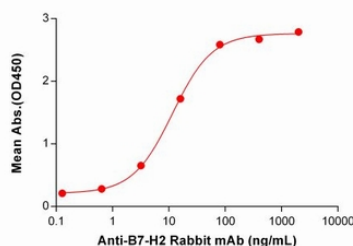


Figure 3. ELISA plate pre-coated by 1 µg/ml (100 µl/well) Human B7-H2 Protein, mFc-His Tag (11157) can bind Anti-B7-H2 Rabbit mAb in a linear range of 3.2-80 ng/mL.