

## HUMAN BTLA PROTEIN, MFC-HIS TAG

**Cat.#:** 11174

**Product Name:** Human BTLA Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** BTLA;CD272

**Target:** BTLA

**UNIPROT ID:** Q7Z6A9

**Description:** Recombinant human BTLA protein with C-terminal mouse Fc and 6xHis tag

**Background:** This gene encodes a member of the immunoglobulin superfamily. The encoded protein contains a single immunoglobulin (Ig) domain and is a receptor that relays inhibitory signals to suppress the immune response. Alternative splicing results in multiple transcript variants. Polymorphisms in this gene have been associated with an increased risk of rheumatoid arthritis.

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 41.3 kDa after removal of the signal peptide.

**Molecular Characterization:** BTLA(Lys31-Ser150) 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.

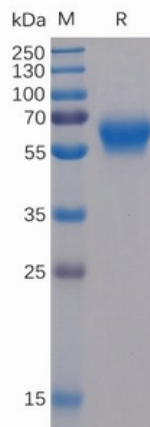


Figure 1. Human BTLA Protein, mFc-His Tag on SDS-PAGE under reducing condition.

## Human BTLA, mFc-His Tagged protein ELISA

0.2  $\mu$ g of HVEM, His Tagged protein per well

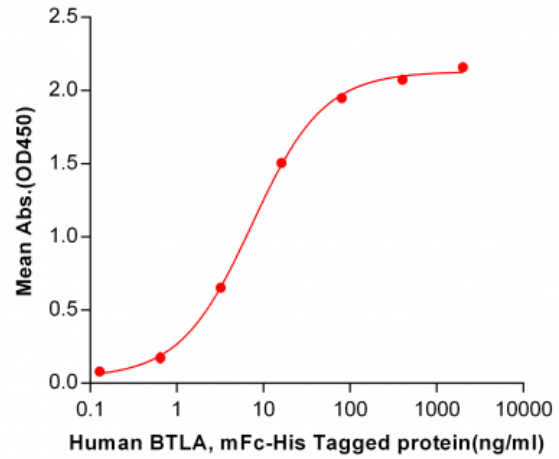


Figure 2. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) Human HVEM, His tagged protein 11253 can bind Human BTLA, mFc-His tagged protein (11174) in a linear range of 0.64-80 ng/ml.

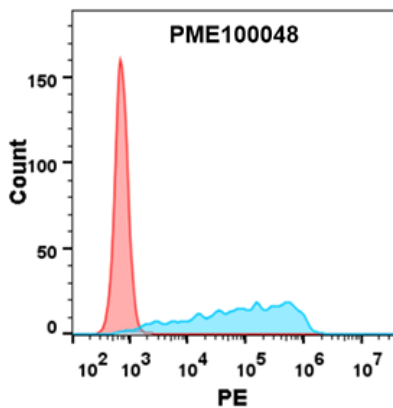


Figure 3. Flow cytometry analysis with 1  $\mu$ g/ml Human BTLA Protein, mFc-His tag (11174) on Expi293 cells transfected with human HVEM (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).