

**HUMAN BTN3A1 PROTEIN, MFC-HIS TAG****Cat.#:** 11180**Product Name:** Human BTN3A1 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** BTN3A1;BTF5;CD277;BTN3.1;BT3.1**Target:** BTN3A1**UNIPROT ID:** O00481**Description:** Recombinant Human BTN3A1 protein with C-terminal mouse Fc and 6xHis tag**Background:** The butyrophilin (BTN) genes are a group of major histocompatibility complex (MHC)-associated genes that encode type I membrane proteins with 2 extracellular immunoglobulin (Ig) domains and an intracellular B30.2 (PRYSPRY) domain. Three subfamilies of human BTN genes are located in the MHC class I region: the single-copy BTN1A1 gene (MIM 601610) and the BTN2 (e.g., BTN2A1, MIM 613590) and BTN3 (e.g., BNT3A1) genes, which have undergone tandem duplication, resulting in 3 copies of each.**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 51.36 kDa after removal of the signal peptide.**Molecular Characterization:** BTN3A1(Glu30-Gly254) 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.

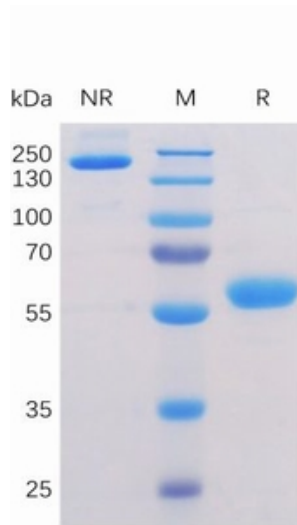


Figure 1. Human BTN3A1 Protein, mFc-His Tag on SDS-PAGE under non-reducing (NR) and reducing (R) conditions.

Human BTN3A1, mFc-His tagged protein ELISA  
0.1  $\mu$ g of Human BTN3A1, mFc-His tagged protein per well

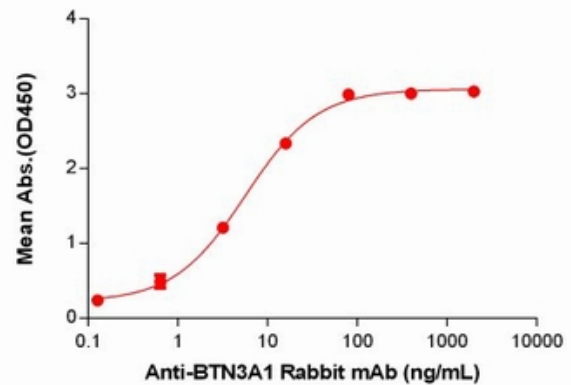


Figure 2. ELISA plate pre-coated by 1  $\mu$ g/ml (100  $\mu$ l/well) Human BTN3A1 protein, mFc-His Tag (11180) can bind Anti-BTN3A1 Rabbit mAb in a linear range of 3.2-16 ng/mL.