

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.

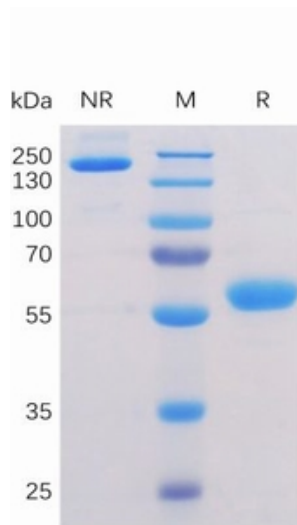


Figure 1. Human BTN3A1 Protein, mFc-His Tag on SDS-PAGE under non-reducing (NR) and reducing (R) conditions.

Human BTN3A1, mFc-His tagged protein ELISA
0.1 μ g of Human BTN3A1, mFc-His tagged protein per well

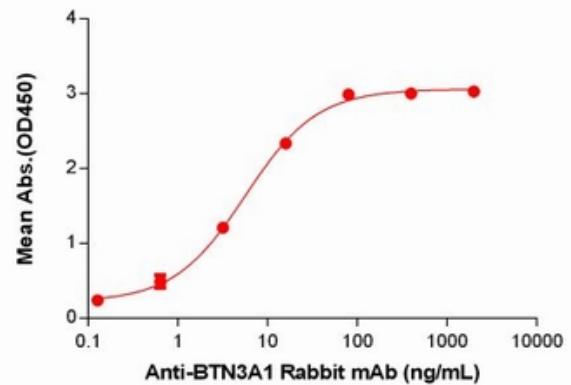


Figure 2. ELISA plate pre-coated by 1 μ g/ml (100 μ l/well) Human BTN3A1 protein, mFc-His Tag (11180) can bind Anti-BTN3A1 Rabbit mAb in a linear range of 3.2-16 ng/mL.