

HUMAN BTN3A3 PROTEIN, HIS TAG**Cat.#:** 11803**Product Name:** Human BTN3A3 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** BTF3**Target:** BTN3A3**UNIPROT ID:** O00478**Description:** Recombinant human BTN3A3 protein with C-terminal 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., BNT3A3) genes, which have undergone tandem duplication, resulting in 3 copies of each (summary by Smith et al., 2010 [PubMed 20208008]).[supplied by OMIM, Nov 2010]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 24.4 kDa after removal of the signal peptide. The apparent molecular mass of BTN3A3-His is approximately 25–35 kDa due to glycosylation.**Molecular Characterization:** BTN3A3(Gln30–Trp248) 6×His tag**Purity:** The purity of the protein is greater than 85% 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.

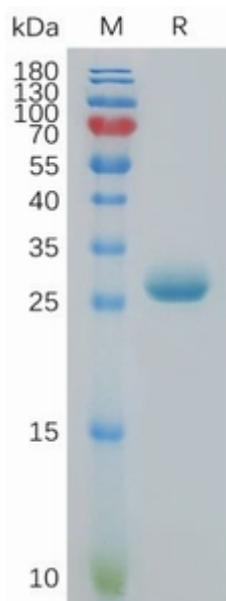


Figure 1. Human BTN3A3 Protein, His Tag on SDS-PAGE under reducing condition.