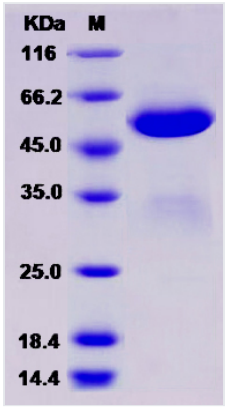
BTN3A3 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	BTN3A3, Recombinant Protein
Full Product Name	Recombinant Human BTN3A3 Protein (Fc tag)
Product Gene Name	BTN3A3 recombinant protein
Product Synonym Names	BTN3A3, BTF3
Host	Human Cells
Form/Format	Lyophilized from sterile PBS, pH 7.4
Purity/Purification	> 95 % as determined by SDS-PAGE
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70 degree C
Molecular Weight	59,688 Da
OMIM	U90548 mRNA
3D Structure	ModBase 3D Structure for O00478
Predicted N Terminal	Gln 30
Endotoxin	< 1.0 EU per mug of the protein as determined by the LAL method
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Application Notes for BTN3A3 recombinant protein	The recombinant human BTN3A3/mFc is a disulfide-linked homodimer. The reduced monomer comprises 453 amino acids and has a predicted molecular mass of 50 kDa. The apparent molecular mass of the protein is approximately 53 in SDS-PAGE under reducing conditions.
Related Product Information for BTN3A3 recombinant protein	A DNA sequence encoding the human BTN3A3 (O00478-1) (Met1-Trp248) was fused with Fc region of mouse IgG at the C-terminus.
Other Notes	Small volumes of BTN3A3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BTN3A3 purchase	MBS2545314 is a recombinant protein targeting BTN3A3. Also known as Recombinant Human BTN3A3 Protein (Fc tag). Host: Human Cells.



SDS-PAGE of BTN3A3 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BTN3A3. It may not necessarily be applicable to this product.

NCBI GI #	338797729
NCBI GeneID	10384
NCBI Accession #	NP_001229732.1
UniProt Primary Accession #	O00478
UniProt Secondary Accession #	B4DWI7; E9PCP5
UniProt Related Accession #	O00478
GenBank Nucleotide #	NM_001242803.1
NCBI Official Full Name	butyrophilin subfamily 3 member A3 isoform c
NCBI Official Synonym Full Names	butyrophilin subfamily 3 member A3
NCBI Official Symbol	BTN3A3
NCBI Official Synonym Symbols	BTF3; BTN3.3
UniProt Protein Name	Butyrophilin subfamily 3 member A3
Protein Family	Butyrophilin subfamily
UniProt Gene Name	BTN3A3
UniProt Synonym Gene Names	BTF3
NCBI Protein Information	butyrophilin subfamily 3 member A3
NCBI Summary for BTN3A3	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]
UniProt Comments for BTN3A3	BTN3A3: Plays a role in T-cell responses in the adaptive immune response. Belongs to the immunoglobulin superfamily. BTN/MOG family. Homodimer Protein type: Cell surface; Membrane protein, integral Chromosomal Location of Human Ortholog: 6p22.2 Cellular Component: cytoplasm; Golgi apparatus; membrane; nucleolus; plasma membrane Biological Process: T cell mediated immunity
Research Articles on BTN3A3	**1.** This study identified that CGPs was found to significantly correlate with the differential expression and methylation of genes encoding butyrophilin, subfamily 3, member A3.
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