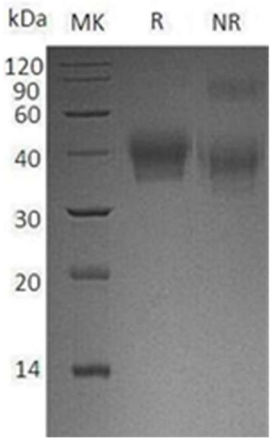
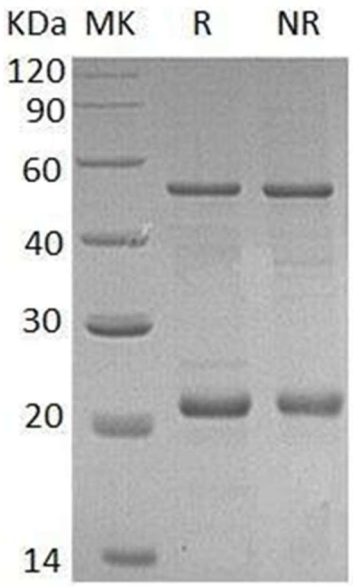
Recombinant Human BTN2A1

Catalog No: CP88

Description	Recombinant Human Butyrophilin Subfamily 2 Member A1 is produced by our Mammalian expression system and the target gene encoding Gln29-Ala248 is expressed with a 6His tag at the C-terminus.
Source	Human Cells
Alternative name	Butyrophilin subfamily 2 member A1; BTN2A1; BT2.1; BTF1
Accession No.	Q7KYR7
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4.
Quality Control	Purity: greater than 95% as determined by reducing SDS-PAGE Endotoxin: Less than 0.1 ng/μg (1 IEU/μg)
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Amino Acid Sequence	QFIVVGPTDPILATVGENTTLRCHLSPEKNAEDMEVRWFRSQFSPAVFVYKGGRERTEEQMEEYRG RTTFVSKDISRGSVALVIH NITAQENGTYRCYFQEGRSYDEAILHLVVAGLGSKPLISMRGHEDGGIRLECISRGWYPKPLTVWRD PYGGVAPALKEVSMPDA DGLFMVTTAVIIRDKSVRNMSCSINNTLLGQKKESVIFIPESFMPSVSPCAHHHHHH
Background	Butyrophilin 2A1 (BTN2A1) is an approximately widely expressed and variably glycosylated type I transmembrane glycoprotein. Mature human Butyrophilin 2A1 consisits of a 220 amino acid (aa) extracellular domain with two immunoglobulin-like domains, a 21 aa transmembrane segment, and a 258 aa cytoplasmic domain. Alternative splicing generates additional isoforms of human Butyrophilin 2A1 that lack the first Ig like domain or transmembrane segment as well as isoforms with substitutions and deletions in the cytoplasmic region. BTN2A1 is widely expressed including on colonic epithelial cells, on immune cells, and in milk fat globules. It binds to the C-type lectin DCSIGN on monocytederived dendritic cells, and this interaction can be blocked by soluble gp130 from HIV. The polymorphism of BTN2A1 has been associated with metabolic syndrome, type II diabetes mellitus, chronic kidney disease, and hypertension.

SDS-PAGE

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