

Recombinant Human BTN3A1 protein, Fc-tagged

Cat. No. BTN3A1-736H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BTN3A1 (Gln30-Gly254) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Gln30-Gly254
Description	Butyrophilin subfamily 3 member A1 (BTN3A1) is also known as CD277 and BTF5, which belongs to the immunoglobulin superfamily and contains one B30.2/SPRY domain and two Ig-like V-type (immunoglobulin-like) domains. BTN3A1 plays a role in T-cell activation and in the adaptive immune response. Also, BTN3A1 regulates the proliferation of activated T-cells and the release of cytokines and IFNG by activated T-cells. Furthermore, BTN3A1 mediates the response of T-cells toward infected and transformed cells that are characterized by high levels of phosphorylated metabolites, such as isopentenyl pyrophosphate.
Predicted N Terminal	Gln30
Form	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 50.8 kDa. As a result of glycosylation, the protein migrates as 58-65 kDa under reducing (R) condition, and 120 kDa under non-

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	reducing (NR) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	BTN3A1
Official Symbol	BTN3A1
Synonyms	BTN3A1; butyrophilin, subfamily 3, member A1; butyrophilin subfamily 3 member A1; BT3.1; BTF5; CD277; dJ45P21.3 (butyrophilin, subfamily 3, member A1); MGC141880
Gene ID	11119
mRNA Refseq	NM_001145008
Protein Refseq	NP_001138480

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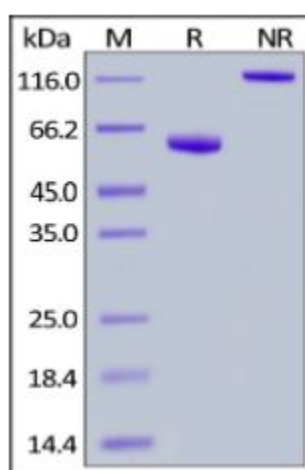
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MIM 613593

UniProt ID O00481

**SDS-PAGE of
BTN3A1-736H**



Human BTN3A1, Fc Tag on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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