



### Synonym

BTN3A1,CD277,BTF5

### Source

Human BTN3A1, Fc Tag(BT1-H5255) is expressed from human 293 cells (HEK293). It contains AA Gln 30 - Gly 254 (Accession # [O00481-1](#)).

Predicted N-terminus: Gln 30

### Molecular Characterization

BTN3A1(Gln 30 - Gly 254) O00481-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 50.8 kDa. The protein migrates as 58-65 kDa under reducing (R) condition, and 120 kDa under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.

### Endotoxin

Less than 1.0 EU per µg by the LAL method.

### Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

### Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

### Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

### Storage

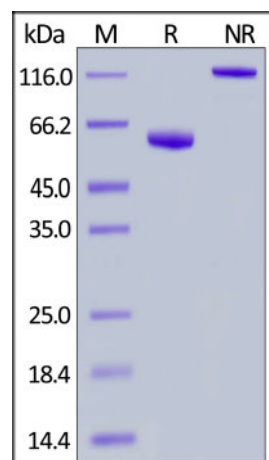
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

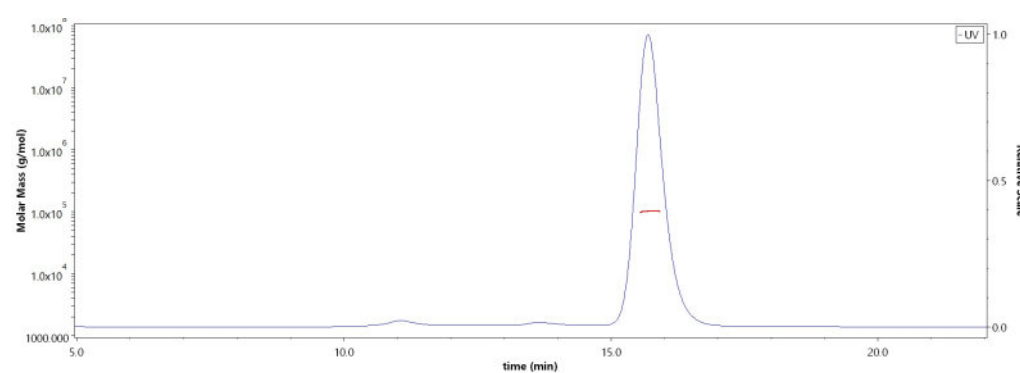
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

### SDS-PAGE



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

### SEC-MALS



The purity of Human BTN3A1, Fc Tag (Cat. No. BT1-H5255) is more than 90% and the molecular weight of this protein is around 95-115 kDa verified by SEC-MALS.

[Report](#)

### Background

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,

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## Human BTN3A1 / CD277 Protein, Fc Tag (MALS verified)

Catalog # BT1-H5255



BIOSYSTEMS  
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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.

### Clinical and Translational Updates

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