



## Synonym

BTN3A1,CD277,BTF5

## Source

Human BTN3A1 Protein, His Tag(BT1-H52H4) is expressed from human 293 cells (HEK293). It contains AA Gln 30 - Gly 254 (Accession # [O00481-1](#)).

Predicted N-terminus: Gln 30

## Molecular Characterization

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 29.5 kDa. The protein migrates as 32-35 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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

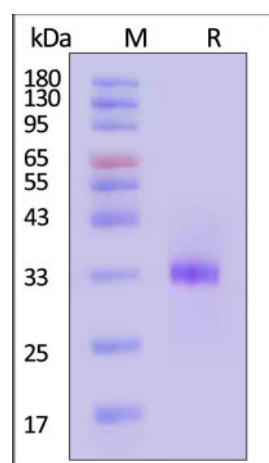
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

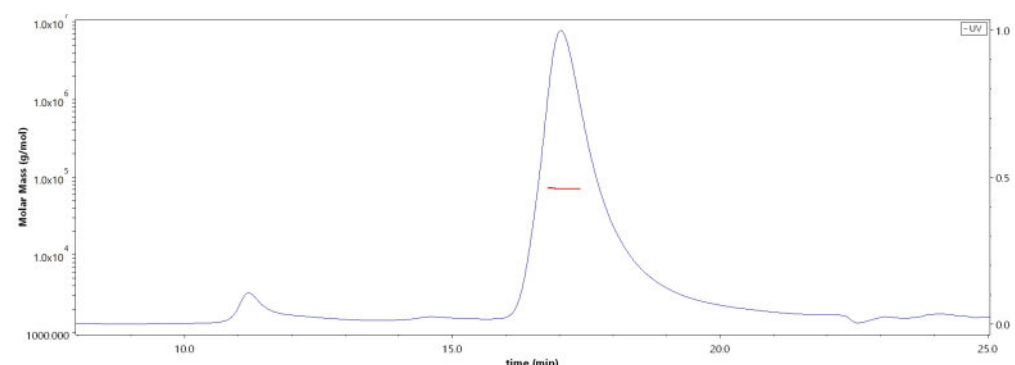
## SDS-PAGE



Human BTN3A1 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

## SEC-MALS

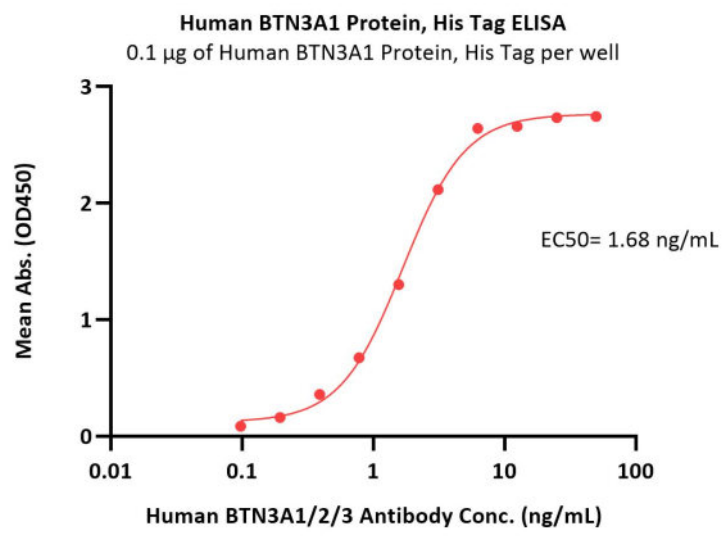


The purity of Human BTN3A1 Protein, His Tag (Cat. No. BT1-H52H4) is more than 85% and the molecular weight of this protein is around 65-80 kDa verified by SEC-MALS.

[Report](#)

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Immobilized Human BTN3A1 Protein, His Tag (Cat. No. BT1-H52H4) at 1 µg/mL (100 µL/well) can bind Human BTN3A1/2/3 Antibody with a linear range of 0.1-3 ng/mL (QC tested).

## 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, 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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