

### Synonym

BK14H9.1,BT2.1,BTF1,BTF1BT2.1butyrophilin BTF1,BTN2A1,butyrophilin subfamily 2 member A1,butyrophilin,subfamily 2,member A1,DJ3E1.1,FLJ36567

### Source

Human BTN2A1/Butyrophilin, His Tag (BT1-H52H6) is expressed from human 293 cells (HEK293). It contains AA Gln 29 - Ala 248 (Accession # [Q7KYR7-2](#)). Predicted N-terminus: Gln 29

### Molecular Characterization

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

The protein has a calculated MW of 26.4 kDa. The protein migrates as 38-45 kDa under reducing (R) 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 PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

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

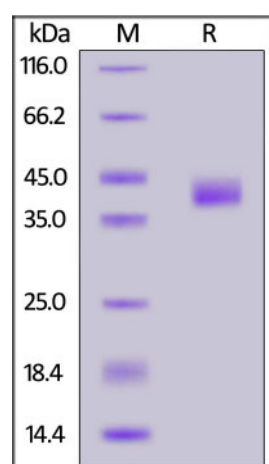
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

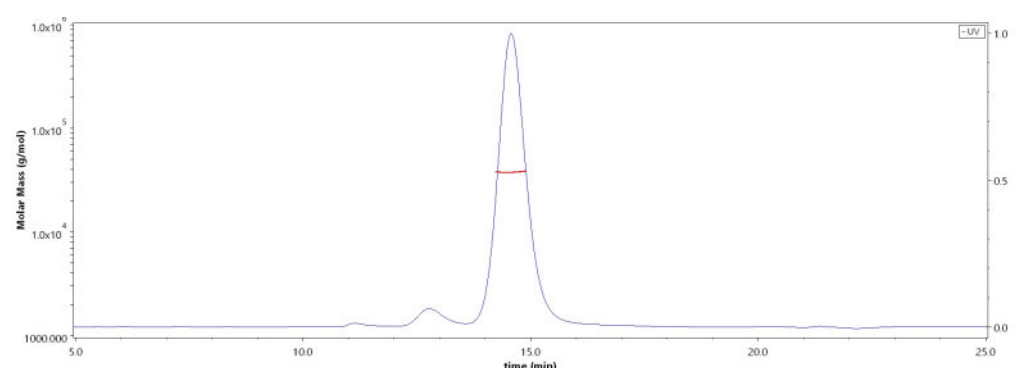
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

### SDS-PAGE



Human BTN2A1/Butyrophilin, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

### SEC-MALS



The purity of Human BTN2A1/Butyrophilin, His Tag (Cat. No. BT1-H52H6) was more than 90% and the molecular weight of this protein is around 30-46kDa verified by SEC-MALS.

[Report](#)

### Background

Duplication events have led to three paralogues of BTN2A in primates: BTN2A1, BTN2A2, and BTN2A3. In humans, only BTN2A1 has been functionally characterised; it has been detected on epithelial cells and leukocytes, and identified as a novel ligand of dendritic cell-specific ICAM-3 grabbing nonintegrin (DCSIGN), a C-type lectin receptor that acts as an internalization receptor for HIV-1, HCV, and other pathogens. BTN2A2 mRNA has been shown to be expressed in circulating human immune cells.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.