

Synonym

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

Source

Biotinylated Human BTN2A1, Fc,Avitag (BT1-H52F5) is expressed from human 293 cells (HEK293). It contains AA Gln 29 - Ala 248 (Accession # [Q7KYR7-2](#)).

Predicted N-terminus: Gln 29

Molecular Characterization

BTN2A1(Gln 29 - Ala 248) Q7KYR7-2	Fc(Pro 100 - Lys 330) P01857	Avi
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This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 52.7 kDa. The protein migrates as 65-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Biotinylation

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Biotin:Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

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 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5. 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

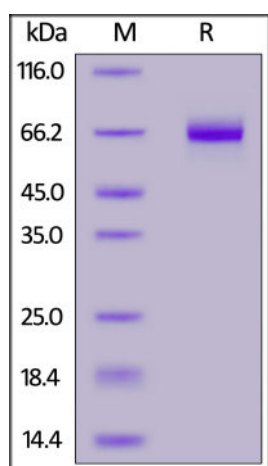
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

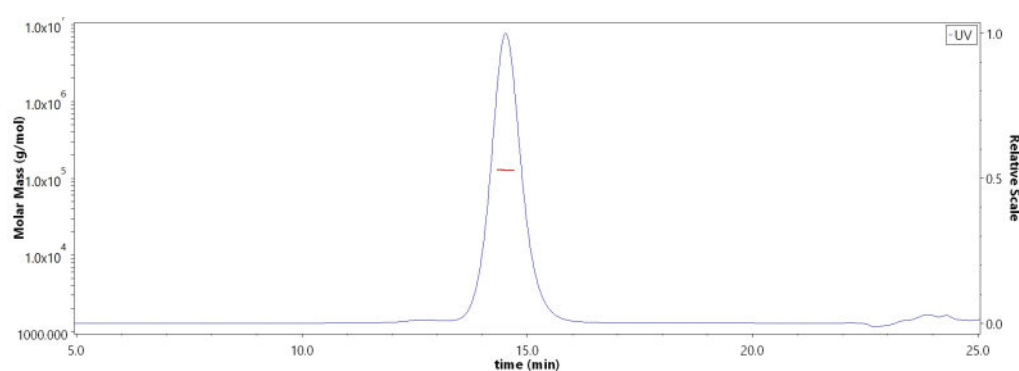
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human BTN2A1, Fc,Avitag 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 Biotinylated Human BTN2A1, Fc,Avitag (Cat. No. BT1-H52F5) is more than 90% and the molecular weight of this protein is around 114-139 kDa 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 if you have any question on this product.