

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 Protein, His,Avitag(BT1-H52E6) 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	Poly-his	Avi
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This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™)

The protein has a calculated MW of 28.1 kDa. The protein migrates as 45-53 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

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

>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.

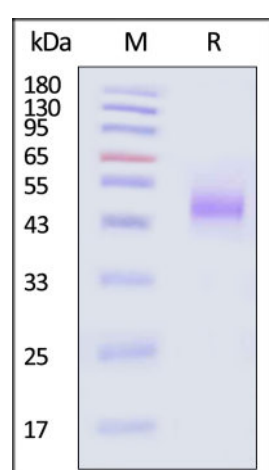
Storage

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

Biotinylated Human BTN2A1 Protein, His,Avitag 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](#)).

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 mR 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.