

Biotinylated Human BTN3A1/CD277 Protein

Cat. No. BTN-HM4A3B

Description

Source	Recombinant Biotinylated Human BTN3A1/CD277 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gln30-Gly254.
Accession	O00481-1
Molecular Weight	The protein has a predicted MW of 27.1 kDa. Due to glycosylation, the protein migrates to 30-35 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per ug by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

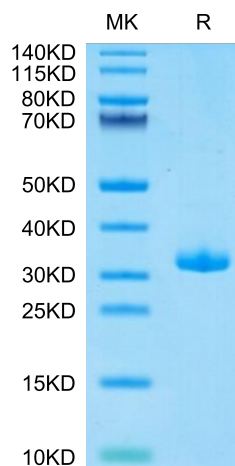
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The three butyrophilin BTN3A molecules, BTN3A1, BTN3A2, and BTN3A3, are members of the B7/butyrophilin-like group of Ig superfamily receptors, which modulate the function of T cells. BTN3A1 controls activation of human Vγ9/Vδ2 T cells by direct or indirect presentation of self and nonself phosphoantigens (pAg).

Assay Data

Tris-Bis PAGE



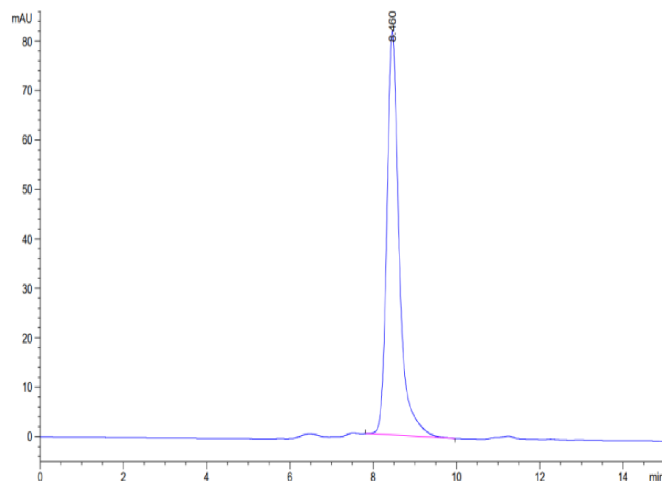
Biotinylated Human BTN3A1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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Assay Data

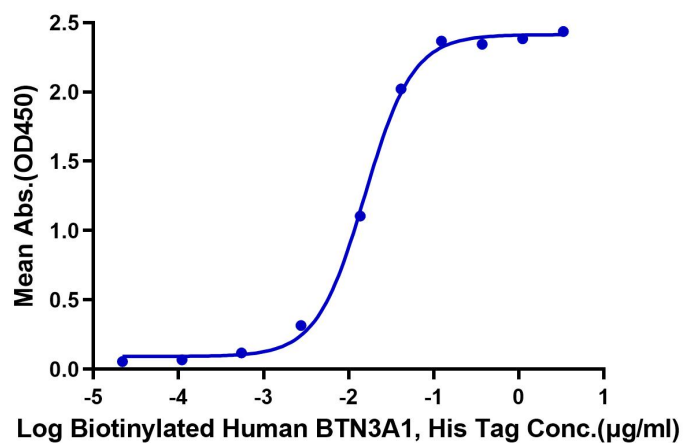


The purity of Biotinylated Human BTN3A1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human BTN3A1, His Tag ELISA

0.2µg Anti-BTN3A1 Antibody, hFc Tag Per Well



Immobilized Anti-BTN3A1 Antibody, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human BTN3A1, His Tag with the EC50 of 15.4ng/ml determined by ELISA.