

# 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 Bis-Tris PAGE result.
Endotoxin	Less than 1EU per ug by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

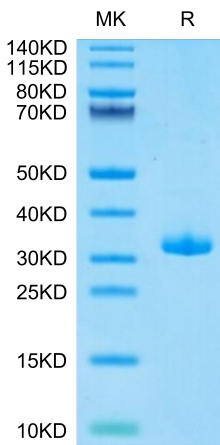
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months 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).

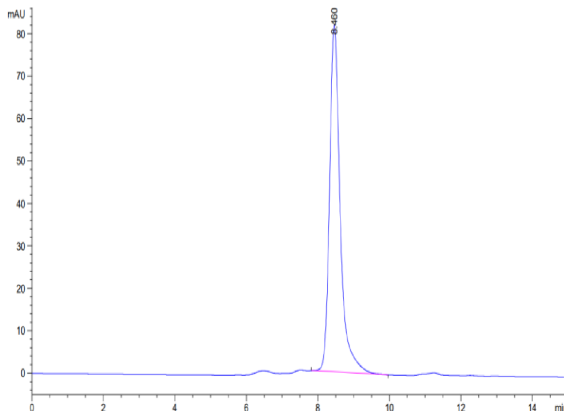
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



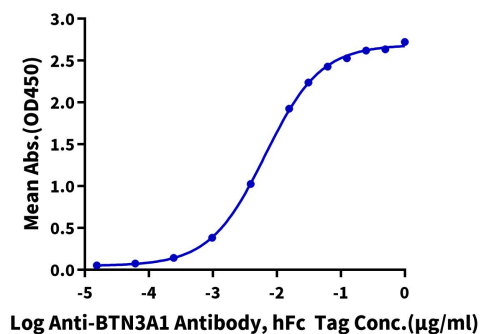
The purity of Biotinylated Human BTN3A1 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Biotinylated Human BTN3A1, His Tag ELISA**

0.1µg Biotinylated Human BTN3A1, His Tag Per Well



Immobilized Biotinylated Human BTN3A1, His Tag at 1µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-BTN3A1 Antibody, hFc Tag with the EC50 of 6.6ng/ml determined by ELISA.