

Human BTN3A1/CD277 Protein

Cat. No. BTN-HM0A1

Description

Source	Recombinant Human BTN3A1/CD277 Protein is expressed from HEK293 without tag. It contains Gln30-Gly254.
Accession	O00481-1
Molecular Weight	The protein has a predicted MW of 24.15 kDa. Due to glycosylation, the protein migrates to 26-32 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

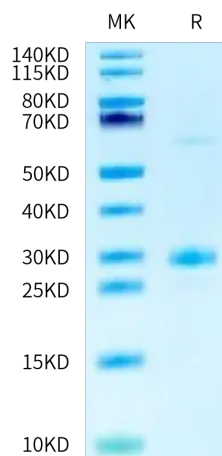
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 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 V γ 9/V δ 2 T cells by direct or indirect presentation of self and nonself phosphoantigens (pAg).

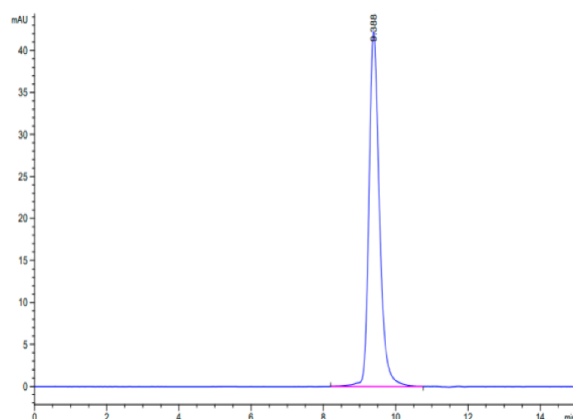
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



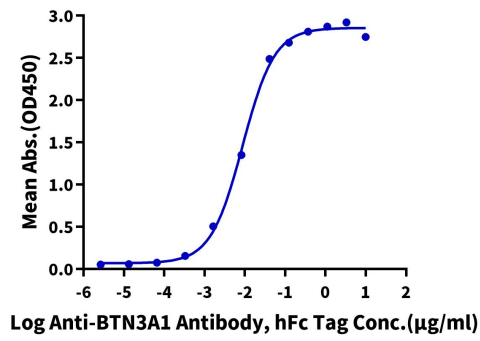
The purity of Human BTN3A1 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human BTN3A1, No Tag ELISA

0.05µg Human BTN3A1, No Tag Per Well



Immobilized Human BTN3A1, No Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-BTN3A1 Antibody, hFc Tag with the EC50 of 8.8ng/ml determined by ELISA.