Human BTN3A1/CD277 Protein

Cat. No. BTN-HM2A3

Description

Source	Recombinant Human BTN3A1/CD277 Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Gln30-Gly254.
Accession	O00481-1
Molecular Weight	The protein has a predicted MW of 50.9 kDa. Due to glycosylation, the protein migrates to 58-63 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per ug by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

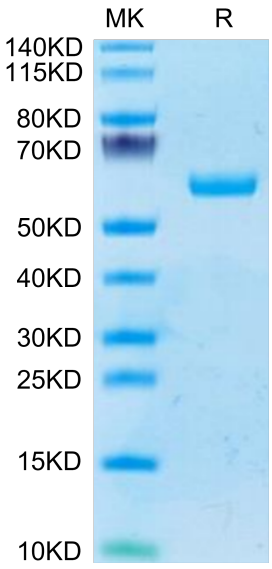
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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 Vγ9/Vδ2 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

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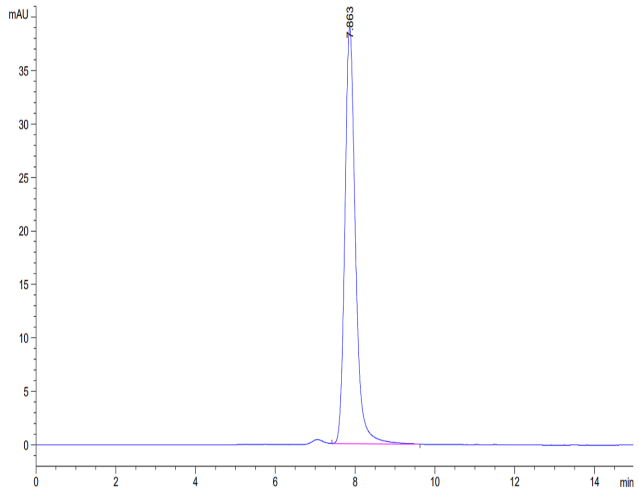
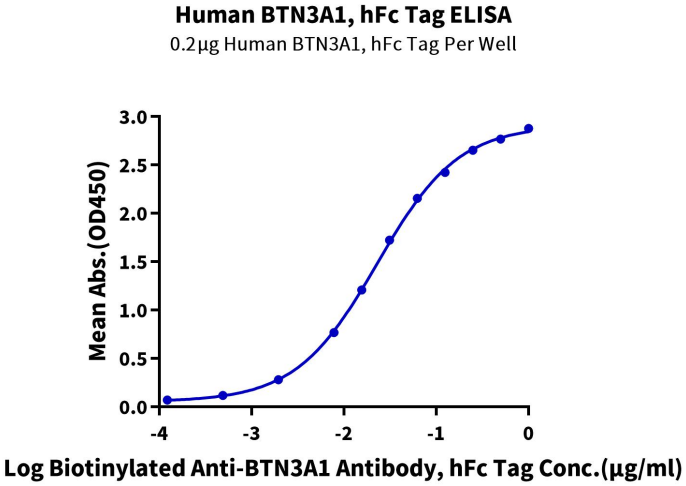
Assay Data



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

ELISA Data



Immobilized Human BTN3A1, hFc Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Anti-BTN3A1 Antibody, hFc Tag with the EC50 of 22.9ng/ml determined by ELISA.