

Human BTN3A1/CD277 Protein

Cat. No. BTN-HM1A1

Description

Source	Recombinant Human BTN3A1/CD277 Protein is expressed from Expi293 with His tag at the C-terminal. It contains Gln30-Gly254.
Accession	O00481-1
Molecular Weight	The protein has a predicted MW of 25.3 kDa. Due to glycosylation, the protein migrates to 28-35 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg 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 tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). 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 avoid 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

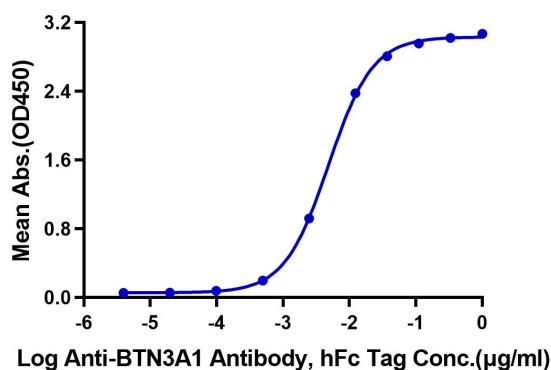


Human BTN3A1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Human BTN3A1, His Tag ELISA

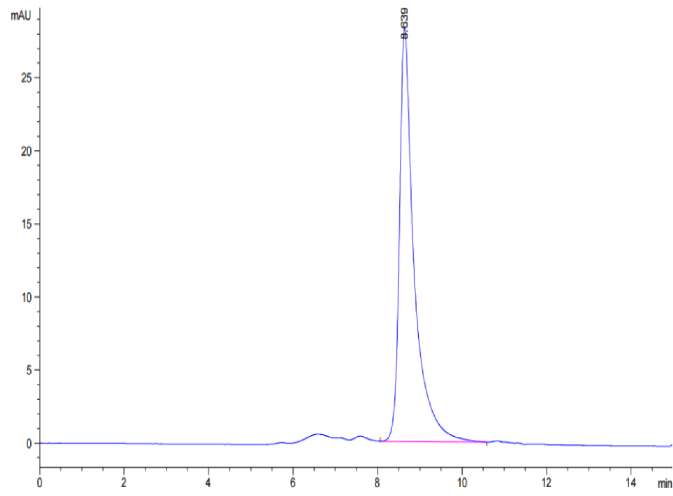
0.05µg Human BTN3A1, His Tag Per Well



Immobilized Human BTN3A1, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-BTN3A1 Antibody, hFc Tag with the EC50 of 4.8ng/ml determined by ELISA.

Assay Data

SEC-HPLC



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