

# Biotinylated Cynomolgus BTN3A1/CD277 Protein

Cat. No. BTN-CM4A1B

## Description

<b>Source</b>	Recombinant Biotinylated Cynomolgus BTN3A1/CD277 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gln1-Trp219.
<b>Accession</b>	A0A330KWZ1
<b>Molecular Weight</b>	The protein has a predicted MW of 26.5 kDa. Due to glycosylation, the protein migrates to 30-35 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-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).

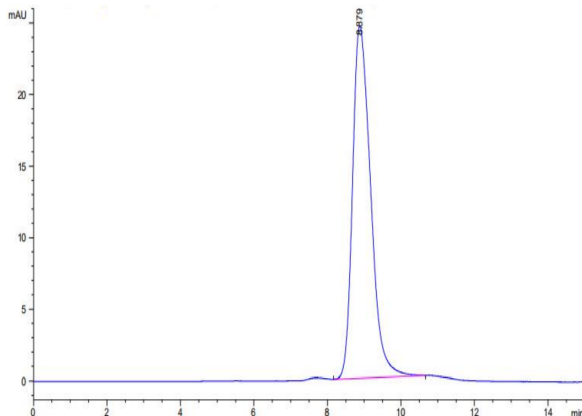
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



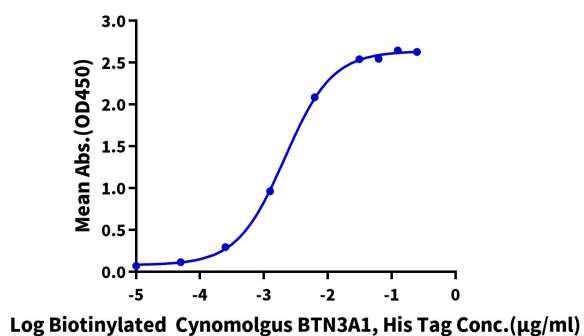
The purity of Biotinylated Cynomolgus BTN3A1 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Biotinylated Cynomolgus 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 Cynomolgus BTN3A1, His Tag with the EC50 of 2.1ng/ml determined by ELISA.