

# Biotinylated Human BTN1A1/Butyrophilin Protein

Cat. No. BTN-HM4A1B

## Description

<b>Source</b>	Recombinant Biotinylated Human BTN1A1/Butyrophilin Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ala27-Arg242.
<b>Accession</b>	Q13410
<b>Molecular Weight</b>	The protein has a predicted MW of 26.9 kDa. Due to glycosylation, the protein migrates to 30-40 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

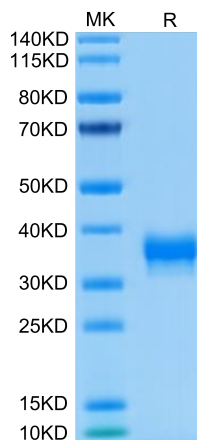
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. 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

Butyrophilin 1A1 (BTN1A1) is one of the membrane proteins that surrounds LD, BTN1A1 plays an important role in regulating LD synthesis via a mechanism involving membrane phospholipid composition.

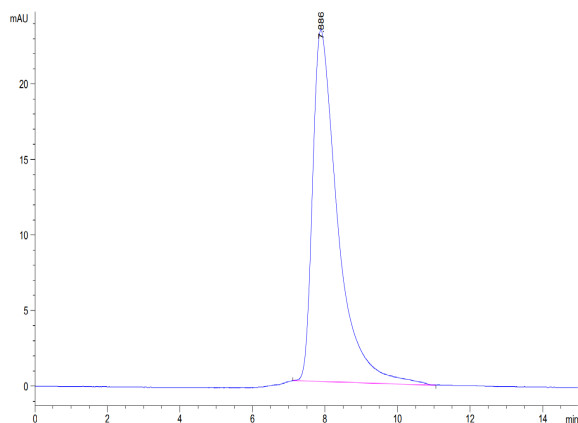
## Assay Data

### Bis-Tris PAGE



Biotinylated Human BTN1A1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Biotinylated Human BTN1A1 is greater than 95% as determined by SEC-HPLC.