

# Human BTN1A1/Butyrophilin Protein

Cat. No. BTN-HM2A1

## Description

<b>Source</b>	Recombinant Human BTN1A1/Butyrophilin Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Ala27-Arg242.
<b>Accession</b>	Q13410
<b>Molecular Weight</b>	The protein has a predicted MW of 50.7 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

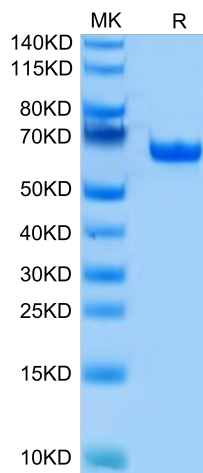
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -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 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.

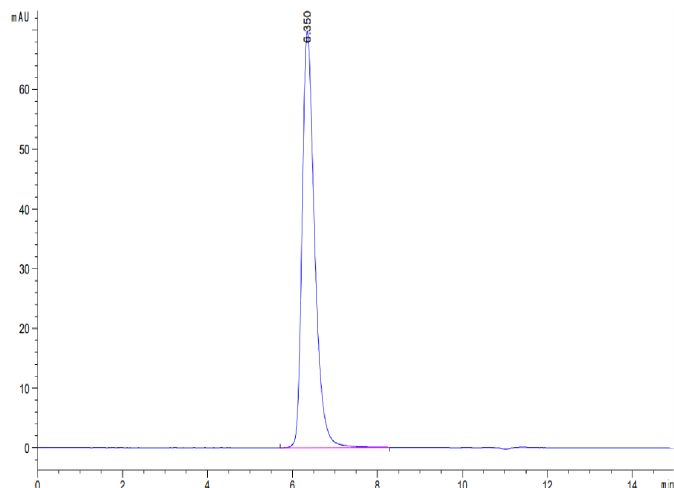
## Assay Data

### Tris-Bis PAGE



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

### SEC-HPLC



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