

Human BTN1A1/Butyrophilin Protein

Cat. No. BTN-HM4A1

Description

Source	Recombinant Human BTN1A1/Butyrophilin Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ala27-Arg242.
Accession	Q13410
Molecular Weight	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.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

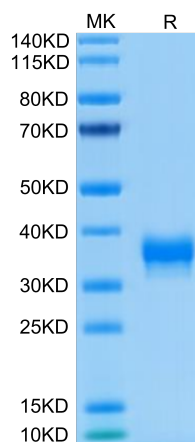
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized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

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.

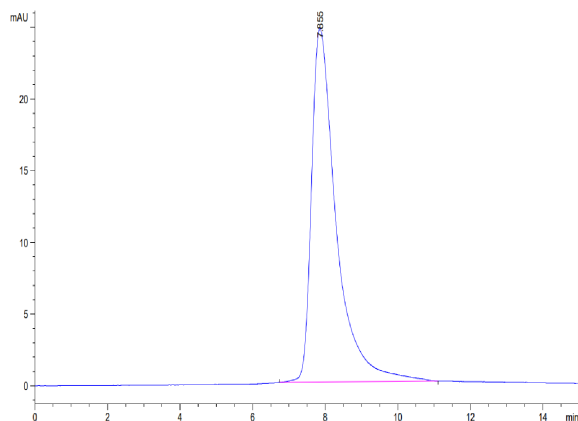
Assay Data

Bis-Tris PAGE



Human BTN1A1 on Bis-Tris 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.