

Human BTN2A1 Protein

Cat. No. BTN-HM12A

Description

Source	Recombinant Human BTN2A1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln29-Ala248.
Accession	Q7KYR7-1
Molecular Weight	The protein has a predicted MW of 25.65 kDa. Due to glycosylation, the protein migrates to 38-48 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

The MHC-encoded butyrophilin, BTN2A1, is a cell surface glycoprotein related to the extended family of B7 costimulatory molecules. BTN2A1 mRNA was expressed in most human tissues, but protein expression was significantly lower in leukocytes.

Assay Data

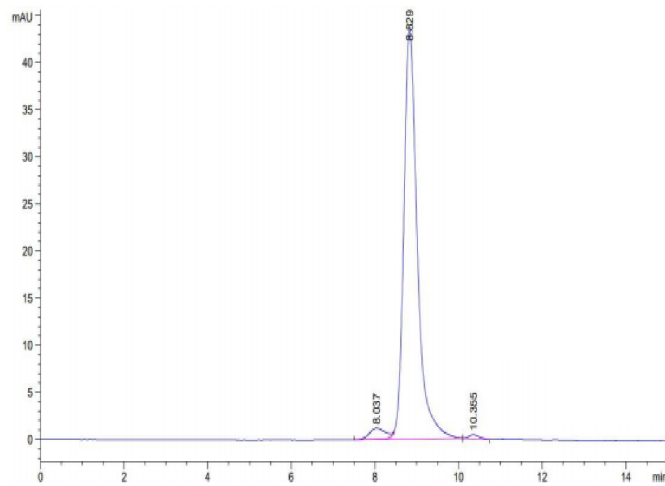
Bis-Tris PAGE



Human BTN2A1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

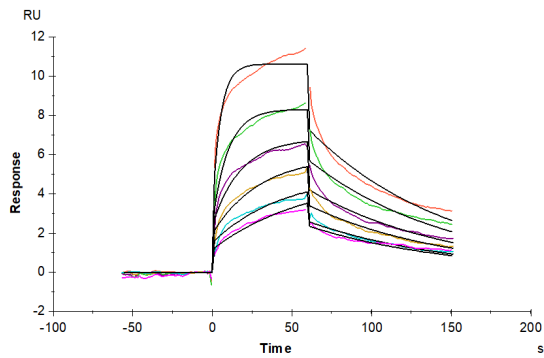
SEC-HPLC

Assay Data



The purity of Human BTN2A1 is greater than 95% as determined by SEC-HPLC.

SPR Data



Human BTN2A1, His Tag immobilized on CM5 Chip can bind Human CD209, His Tag with an affinity constant of 0.12 μ M as determined in SPR assay (Biacore T200).