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Datasheet for ABIN7274003

## BTN2A1 Protein (AA 29-248) (His tag)

### 3 Images

#### Overview

Quantity:	100 µg
Target:	BTN2A1
Protein Characteristics:	AA 29-248
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BTN2A1 protein is labelled with His tag.

#### Product Details

Purpose:	Human BTN2A1 Protein
Sequence:	Gln29-Ala248
Characteristics:	Recombinant Human BTN2A1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln29-Ala248.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 0.12 µM as determined in SPR assay (Biacore T200). See testing image for detail.

## Target Details

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Target:	BTN2A1
Alternative Name:	BTN2A1 ( <a href="#">BTN2A1 Products</a> )
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.
Molecular Weight:	25.65 kDa. Due to glycosylation, the protein migrates to 38-48 kDa based on Tris-Bis PAGE result.
Pathways:	<a href="#">Activated T Cell Proliferation</a>

## Application Details

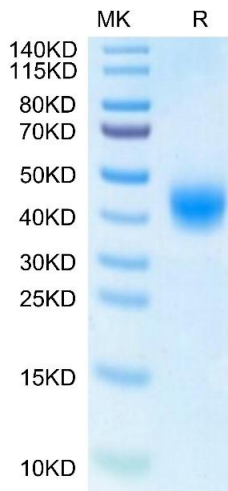
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Restrictions:	For Research Use only
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## Handling

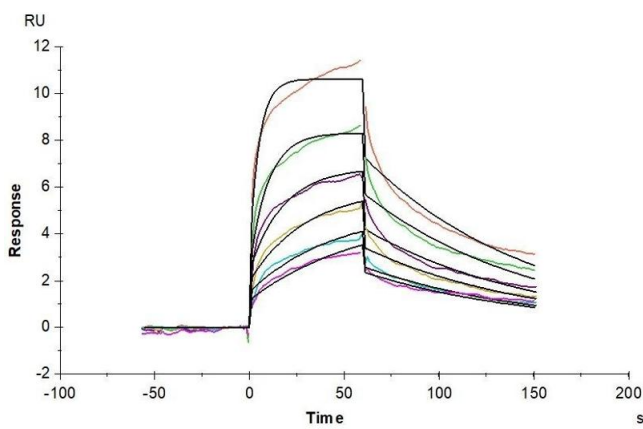
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Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months 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.
Expiry Date:	12 months



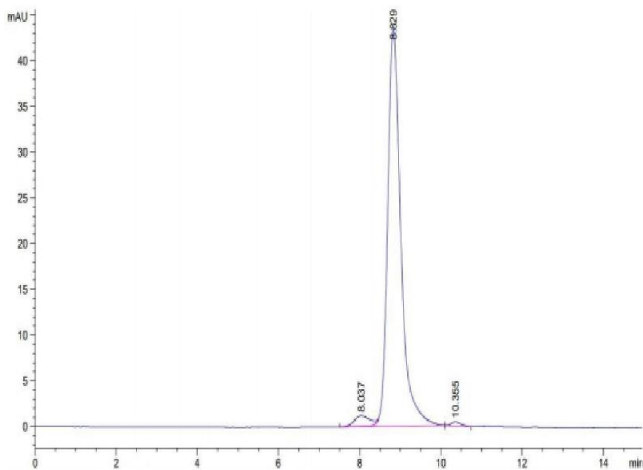
### SDS-PAGE

**Image 1.** Human BTN2A1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



### Surface Plasmon Resonance

**Image 2.** Human BTN2A1, His Tag immobilized on CM5 Chip can bind Human CD209, His Tag with an affinity constant of 0.12  $\mu\text{M}$  as determined in SPR assay (Biacore T200).



### Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 3.** The purity of Human BTN2A1 is greater than 95 % as determined by SEC-HPLC.