

# Human BTN2A1 Protein

Cat. No. BTN-HM12A



## Description

<b>Source</b>	Recombinant Human BTN2A1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln29-Ala248.
<b>Accession</b>	Q7KYR7-1
<b>Molecular Weight</b>	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.
<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>	Supplied as 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at $-80^{\circ}\text{C}$ . 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.

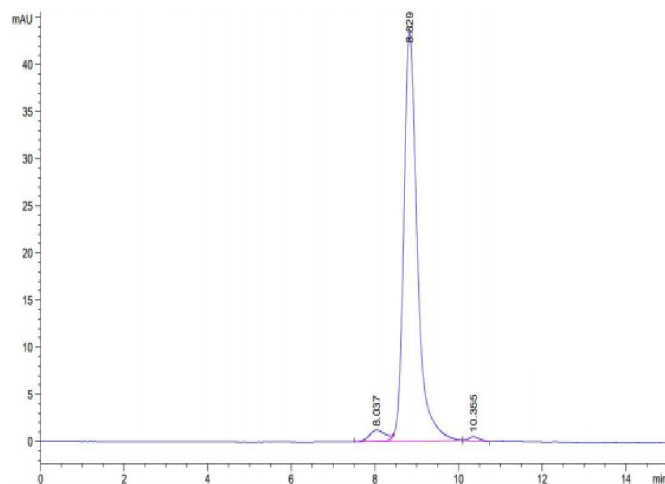
## Assay Data

### Bis-Tris PAGE



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

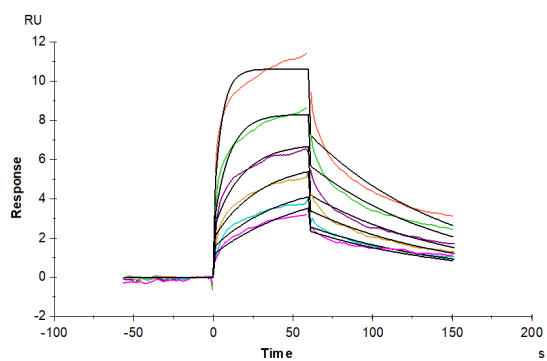
### SEC-HPLC



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

Assay Data

SPR Data



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