

Datasheet for ABIN5954976

**BTN3A1 Protein (AA 30-254) (Fc Tag,AVI tag,Biotin)**[Go to Product page](#)**1** Image

## Overview

Quantity:	200 µg
Target:	BTN3A1
Protein Characteristics:	AA 30-254
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BTN3A1 protein is labelled with Fc Tag,AVI tag,Biotin.

## Product Details

Sequence:	AA 30-254
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

Target:	BTN3A1
Alternative Name:	BTN3A1 ( <a href="#">BTN3A1 Products</a> )
Background:	Butyrophilin subfamily 3 member A1 (BTN3A1) is also known as CD277 and BTF5, which belongs to the immunoglobulin superfamily and contains one B30.2/SPRY domain and two Ig-like V-type (immunoglobulin-like) domains. BTN3A1 plays a role in T-cell activation and in the

## Target Details

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adaptive immune response. Also, BTN3A1 regulates the proliferation of activated T-cells and the release of cytokines and IFNG by activated T-cells. Furthermore, BTN3A1 mediates the response of T-cells toward infected and transformed cells that are characterized by high levels of phosphorylated metabolites, such as isopentenyl pyrophosphate.

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Molecular Weight: 52.9 kDa

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NCBI Accession: [NP\\_008979](#)

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Pathways: [Activated T Cell Proliferation](#)

## Application Details

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Comment: Ready-to-use Avitag<sup>TM</sup> biotinylated protein:  
The product is exclusively produced using the Avitag<sup>TM</sup> technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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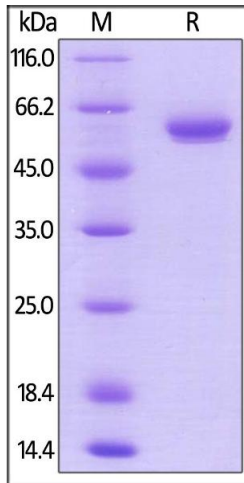
Buffer: Tris with Glycine, Arginine and NaCl, pH 7.5

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Handling Advice: Please avoid repeated freeze-thaw cycles.

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Storage: -20 °C



#### SDS-PAGE

**Image 1.** Biotinylated Human BTN3A1, Fc,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .