

Datasheet for ABIN7320474  
**BTN1A1 Protein (His tag)**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	50 µg
Target:	BTN1A1
Origin:	Mouse
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BTN1A1 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Mouse Butyrophilin 1A1/BTN1A1 Protein (His Tag)
Sequence:	Ala27-Trp247
Characteristics:	Recombinant Mouse Butyrophilin Subfamily 1 Member A1 is produced by our Mammalian expression system and the target gene encoding Ala27-Trp247 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

## Target Details

Target:	BTN1A1
Alternative Name:	Butyrophilin 1A1/BTN1A1 ( <a href="#">BTN1A1 Products</a> )
Background:	Background: Mouse Butyrophilin subfamily 1 member A1(BTN1A1) is a type I transmembrane glycoprotein which is a member of the Ig superfamily. The BTN1A1 ECD displays two predicted

## Target Details

IgV and IgC domains as do B7 and Skint proteins which interact with other Ig superfamily members. BTN1A1 binds to xanthine oxidoreductase (XOR). This interaction stabilizes the association of XOR with the milk fat globule membrane and appears to be essential in the control of milk fat globule secretion. In vitro, BTN1A1 inhibits the proliferation of CD4 and CD8 T-cells activated by anti-CD3 antibodies, T-cell metabolism and IL-2 and IFN- $\gamma$  secretion. Furthermore, in vivo, BTN1A1 has a protective effect against the development of experimental autoimmune encephalomyelitis (EAE). Because butyrophilins are structurally related to B7 proteins and are functionally implicated in immune regulation, they may represent an emerging family of costimulatory/inhibitory molecules.

Synonym: Butyrophilin subfamily 1 member A1, BTN, BTN1A1, butyrophilin, Btn1a1

Molecular Weight: 25.4 kDa

UniProt: [Q62556](#)

Pathways: [Activated T Cell Proliferation](#)

## Application Details

Restrictions: For Research Use only

## Handling

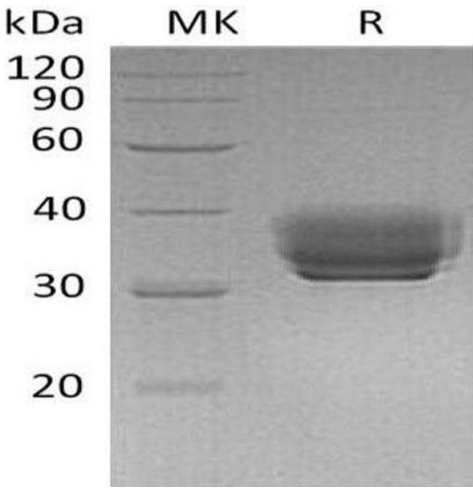
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2  $\mu$ m filtered solution of PBS, pH 7.4.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.