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# Recombinant human CD277/BTN3A1 protein

Catalog Number: ATGP3633

#### PRODUCT INFORMATION

# **Expression system**

Baculovirus

#### **Domain**

30-254aa

#### UniProt No.

000481

#### **NCBI Accession No.**

NP 008979.3

#### **Alternative Names**

Butyrophilin subfamily 3 member A1 isoform, BTN3A1, BT3.1, BTF5, BTN3.1, CD277

# **PRODUCT SPECIFICATION**

## **Molecular Weight**

51.1 kDa (464aa)

#### Concentration

0.5mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### **Tag**

hlgG-His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

### **BACKGROUND**

#### **Description**

BTN3A1, also known as butyrophilin subfamily 3 member A1 isoform, belongs to the immunoglobulin superfamily. It is composed of an extracellular N-terminal IgV and a membrane proximal IgC domain followed by a transmembrane domain and a cytoplasmic tail. This protein plays a role in T-cell activation and in the adaptive immune response. Also, it regulates the proliferation of activated T-cells and the release of cytokines and IFNG



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by activated T-cells. Recombinant human BTN3A1, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

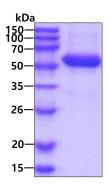
QFSVLGPSGP ILAMVGEDAD LPCHLFPTMS AETMELKWVS SSLRQVVNVY ADGKEVEDRQ SAPYRGRTSI LRDGITAGKA ALRIHNVTAS DSGKYLCYFQ DGDFYEKALV ELKVAALGSD LHVDVKGYKD GGIHLECRST GWYPQPQIQW SNNKGENIPT VEAPVVADGV GLYAVAASVI MRGSSGEGVS CTIRSSLLGL EKTASISIAD PFFRSAQRWI AALAG<LEPKS CDKTHTCPPC PAPELLGGPS VFLFPPKPKD TLMISRTPEV TCVVVDVSHE DPEVKFNWYV DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY TLPPSRDELT KNQVSLTCLV KGFYPSDIAV EWESNGQPEN NYKTTPPVLD SDGSFFLYSK LTVDKSRWQQ GNVFSCSVMH EALHNHYTQK SLSLSPGKHH HHHH>

#### **General References**

Rhodes DA., et al, (2015) J. Immunol. 194:2390-2398. Sandstrom A., et al, (2014) Immunity 40:490-500.

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

