Recombinant human CD277/BTN3A1 protein

Catalog Number: ATGP3633

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
30-254aa

UniProt No.
O00481

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
hIgG-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 hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

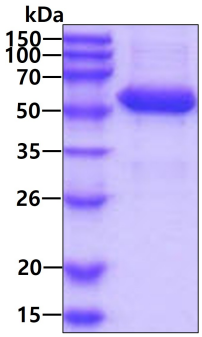
QFSVLGPSGP ILAMVGEDAD LPCHLFPTMS AETMELKWVS SSLRQVVNVY ADGKEVEDRQ SAPYRGRTSI LRDGITAGKA ALRIHNVTAS DSGKYLCYFQ DGDFYEKALV ELKVAALGSD LHVDVKGYKD GGIHLECRST GWYPQPQIQW SNNKGENIPT VEAPVVADGV GLYAVAASVI MRGSSGEGVS CTIRSSLLGL EKTASISIAD PFFRSAQRWI AALAG<LEPKS CDKTHTCPPC PAPELLGGPS VFLFPPKPKD TLMISRTPEV TCVVVDVSHE 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.