
Product Data Sheet

Product Name: BTN3A1 Human

Cat. No.: GP22906

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Butyrophilin Subfamily 3 Member A1; BTF5; DJ45P21.3 (Butyrophilin; Subfamily 3; Member A1); Butyrophilin; Subfamily 3; Member A1; CD277 Antigen; BTN3.1; BT3.1; CD277; Butyrophilin subfamily 3 member A1.		
Amino Acid Sequence	<p>QFSVLGPSGP ILAMVGEDAD LPCHLFPTMS AETMELKWVS SSLRQVVNVY ADGKEVEDRQ SAPYRGRTSI LRDGITAGKA ALRIHNVTAS DSGKYLCYFQ DGDFYEKALV ELKVAALGSD LHVDVKGYKD GGIHLECRST GWYPQPQIQW SNNKGENIPT VEAPVVADGV GLYAVAASVI MRGSSGEGVS CTIRSSLLGL EKTASISIAD PFFRSAQRWI AALAGLEPKS CDKTHTCPPC PAPELLGGPS VFLFPPKPKD TLMISRTPEV TCVVVDVSHE DPEVKFNWYV DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVYTLPPSRDELTKNQVSLTCLV KGFYPSDIAV EWESNGQPEN NYKTTTPVLD SDGSFFLYSK LTVDKSRWQQ GNVFSCSVMH EALHNHYTQK SLSLSPGKHH HHHH.</p>		
Formulation	BTN3A1 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Butyrophilin sub family 3 member A1, also known as BTN3A1 is a member of the immunoglobulin superfamily. BTN3A1 is composed of an extracellular N-terminal IgV as well as a membrane proximal IgC domain followed by a transmembrane domain and also a cytoplasmic tail. BTN3A1 participates in T-cell activation and also in the adaptive immune response. Furthermore, BTN3A1 regulates the proliferation of activated T-cells & the release of cytokines and IFNG by activated T-cells. BTN3A1, Mediates the response of T-cells to infected as well as transformed cells which are categorized by high levels of phosphorylated metabolites, such as isopentenyl pyrophosphate.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

BTN3A1 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 464 amino acids (30-254a.a.) and having a molecular mass of 51.1kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). BTN3A1 is expressed with a 239 amino acid hIgG-His Tag at C-Terminus and purified by proprietary chromatographic techniques.

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