BTN3A1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	BTN3A1, Blocking Peptide
Full Product Name	BTN3A1 Blocking Peptide
Product Gene Name	BTN3A1 blocking peptide
Product Synonym Names	BTN3A1 Antibody - Internal; BT3A1_HUMAN; BTN3A1; Butyrophilin subfamily 3 member A1; CD277;
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	BTN3A1 peptide (MBS9621563) is used for blocking the activity of BTN3A1 antibody (MBS9611610)
Molecular Weight	52,019 Da
OMIM	Y07827 mRNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for BTN3A1 blocking peptide	Blocking/Control
Related Product Information for BTN3A1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of BTN3A1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BTN3A1 purchase	MBS9621563 is a blocking peptide targeting BTN3A1.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BTN3A1. It may not necessarily be applicable to this product.

NCBI GI #	117949374
NCBI GeneID	11119
NCBI Accession #	O00481.3
UniProt Primary Accession #	O00481
UniProt Secondary Accession #	Q0P515; Q147X5; Q53F15; Q99420; Q9HCY1; A2A278; A8K2C8; B4DIQ1; B4DRM2; E9PGB4; E9PHG8
UniProt Related Accession #	O00481

NCBI Official Full Name	Butyrophilin subfamily 3 member A1
NCBI Official Synonym Full Names	butyrophilin subfamily 3 member A1
NCBI Official Symbol	BTN3A1
NCBI Official Synonym Symbols	BTF5; BT3.1; CD277; BTN3.1
UniProt Protein Name	Butyrophilin subfamily 3 member A1
UniProt Synonym Protein Names	CD_antigen: CD277
Protein Family	Butyrophilin subfamily
UniProt Gene Name	BTN3A1
UniProt Synonym Gene Names	BTF5
NCBI Protein Information	butyrophilin subfamily 3 member A1
NCBI Summary for BTN3A1	The butyrophilin (BTN) genes are a group of major histocompatibility complex (MHC)-associated genes that encode type I membrane proteins with 2 extracellular immunoglobulin (Ig) domains and an intracellular B30.2 (PRYSPRY) domain. Three subfamilies of human BTN genes are located in the MHC class I region: the single-copy BTN1A1 gene (MIM 601610) and the BTN2 (e.g., BTN2A1; MIM 613590) and BTN3 (e.g., BNT3A1) genes, which have undergone tandem duplication, resulting in 3 copies of each (summary by Smith et al., 2010 [PubMed 20208008]).[supplied by OMIM, Nov 2010]
UniProt Comments for BTN3A1	Plays a role in T-cell activation and in the adaptive immune response. Regulates the proliferation of activated T-cells. Regulates the release of cytokines and IFNG by activated T-cells. Mediates the response of T-cells toward infected and transformed cells that are characterized by high levels of phosphorylated metabolites, such as isopentenyl pyrophosphate.
Research Articles on BTN3A1	**1.** results show that ligand binding to BTN3A1 induces a conformational change within the intracellular domain that involves the JM region and is required for full activation.
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