

Recombinant Human BTN3A1 Protein, Fc-tagged

Cat. No. BTN3A1-616H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human BTN3A1 protein with Fc tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	513
Description	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]).
Form	Lyophilized
Molecular Mass	50.8 kDa
AA Sequence	MKMASFLAFLLLLNFRVCLLLLQLLMPHSAQFSVLGSPGPILAMVGEDADLPCHLFPT MSAETMELKWVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRI HNVTASDSGKYLCYFQDGDYFYEKALVELKVAALGSDLHVDVKGYKDGGIHLERST GWYPQPQIQWSNKGNIPTVEAPVVADGVGLYAVAASVIMRGSSGEGVSTIRSS LLGLEKTASISADPFFRSAQRWIAALAGTLPVLLLLLGGAGYFLWQQQEEKKTQFRK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KKREQELREMAWSTMKQEQSTRVKLLEELRWRSIQYASRGERHSAYNEWKKALFK
 PADVILDPKTANPILLVSEDQRSVQRAKEPQDLDPNPERFNWHYCVLGCESFISGRH
 YWEVEVGDRKEWHIGVCSKNVQRKGWVKMTPENGFWTMGLTDGNKYRTLTEPRT
 NLKLPKPPKKGVFLDYETGDISFYNAVDGSHIHTFLDVSFSEALYPVFRILTLEPTAL
 TICPA

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

Storage At -20 centigrade.

Concentration 1 mg/mL

Storage Buffer PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name **BTN3A1** butyrophilin, subfamily 3, member A1 [Homo sapiens (human)]

Official Symbol **BTN3A1**

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Synonyms	BTN3A1; butyrophilin, subfamily 3, member A1; butyrophilin subfamily 3 member A1; BT3.1; BTF5; CD277; dJ45P21.3 (butyrophilin, subfamily 3, member A1); MGC141880;
Gene ID	11119
mRNA Refseq	NM_001145008
Protein Refseq	NP_001138480
MIM	613593
UniProt ID	O00481

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