

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	MKMASFLAFLLLNFRVCLLLLQLLMPHSAQFSVLGSPGPILAMVGEDADLPCHLFPT MSAETMELKWWSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRI HNVTASDSGKYLCYFQDGDIFYEKALVELKVAALGSDLHVDVKGYKDGGIHLERST GWYPQPQIQWSNNKGENIPTVEAPVVADGVGLYAVAASVIMRGSSGEGVSTIRSS LLGLEKTASISIADPFFRSAQRWIAALAGTLPVLLLLLLGGAGYFLWQQQEEKKTQFRK

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KKREQELREMAWSTMKQEQSTRVKLLEELRWRSIQYASRGERHSAYNEWKKALFK
 PADVILDPKTANPILLVSEDQRSVQRAKEPQDLPDNPERFNWHYCVLGCESFISGRH
 YWEVEVGDRKEWHIGVCSKNVQRKGWVKMTPENGFWTMGLTDGNKYRTLTEPRT
 NLKLPPKPKKVGFLDYETGDISFYNAVDGSHIHTFLDVSFSEALYPVFRILTLEPTAL
 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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