

Recombinant Human BTN3A1 Protein, His-tagged

Cat. No. BTN3A1-013H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human BTN3A1 Protein with His tag was expressed in E. coli.

Species Human

Source E.coli

Description

The Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR) and CRISPR-associated protein (Cas9) system is an adaptive immune response defense mechanism used by archaea and bacteria for the degradation of foreign genetic material. This mechanism can be repurposed for other functions, including genomic engineering for mammalian systems, such as gene knockout (KO) and gene activation. CRISPR Activation Plasmid products enable the identification and upregulation of specific genes by utilizing a D10A and N863A deactivated Cas9 (dCas9) nuclease fused to a VP64 activation domain, in conjunction with sgRNA (MS2), a target-specific sgRNA engineered to bind the MS2-P65-HSF1 fusion protein. This synergistic activation mediator (SAM) transcription activation system provides a robust system to maximize the activation of endogenous gene expression.

Molecular Mass ~24 kDa

AA Sequence

QFSVLGSPGPILAMVGEDADLPCHLFPTMSAETMELKWVSSSLRQVVNVYADGKEV
EDRQSAPYRGRTSILRDGITAGKAALRIHNVTASDSGKYLCYFQDGDYFYEKALVELK
VAALGSDLHVDVKGKYGKGGIHLPCRSTGWYPQPQIQWSNNKGENIPTVEAPVVADG
VGLYAVAASVIMRGSSGEGVSCTIRSSLLGLEKTASISIAADPFFRSAQRWIAALAG

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Purity	Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).
Notes	For research use only, not for use in diagnostic procedure.
Storage	Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.
Storage Buffer	PBS, 4M Urea, pH7.4

GENE INFORMATION

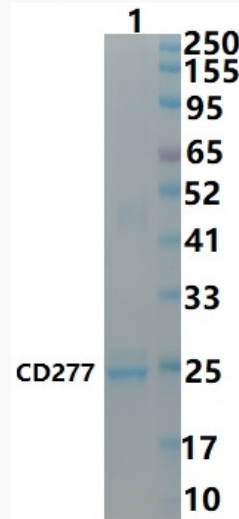
Gene Name	BTN3A1 butyrophilin, subfamily 3, member A1 [Homo sapiens (human)]
Official Symbol	BTN3A1
Synonyms	BTN3A1; butyrophilin, subfamily 3, member A1; butyrophilin subfamily 3 member A1; BT3.1; BTF5; CD277; dJ45P21.3 (butyrophilin, subfamily 3, member A1); MGC141880;
Gene ID	11119
mRNA Refseq	NM_001145008
Protein Refseq	NP_001138480
MIM	613593
UniProt ID	O00481

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SDS-PAGE



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