Datasheet for ABIN7551789

APOBEC3G Protein (AA 1-384) (His tag)

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Overview

Quantity:	1 mg
Target:	APOBEC3G
Protein Characteristics:	AA 1-384
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This APOBEC3G protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat APOBEC3G Protein expressed in mammalien cells.
Sequence:	MKPHFRNTVE RMYRDTFSYN FYNRPILSRR NTVWLCYEVK TKGPSRPPLD AKIFRGQVYS ELKYHPEMRF FHWFSKWRKL HRDQEYEVTW YISWSPCTKC TRDMATFLAE DPKVTLTIFV ARLYYFWDPD YQEALRSLCQ KRDGPRATMK IMNYDEFQHC WSKFVYSQRE LFEPWNNLPK YYILLHIMLG EILRHSMDPP TFTFNFNNEP WVRGRHETYL CYEVERMHND TWVLLNQRRG FLCNQAPHKH GFLEGRHAEL CFLDVIPFWK LDLDQDYRVT CFTSWSPCFS CAQEMAKFIS KNKHVSLCIF TARIYDDQGR CQEGLRTLAE AGAKISIMTY SEFKHCWDTF VDHQGCPFQP WDGLDEHSQD LSGRLRAILQ NQEN **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits:

Product Details

	• Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	APOBEC3G
Alternative Name:	APOBEC3G (APOBEC3G Products)
Background:	DNA dC->dU-editing enzyme APOBEC-3G (EC 3.5.4.38) (APOBEC-related cytidine deaminase) (APOBEC-related protein) (ARCD) (APOBEC-related protein 9) (ARP-9) (CEM-15) (CEM15) (Deoxycytidine deaminase) (A3G),FUNCTION: DNA deaminase (cytidine deaminase) which acts as an inhibitor of retrovirus replication and retrotransposon mobility via deaminase-dependent and -independent mechanisms. Exhibits potent antiviral activity against Vif-deficient HIV-1. After the penetration of retroviral nucleocapsids into target cells of infection and the initiation of reverse transcription, it can induce the conversion of cytosine to uracil in the minus-sense single-strand viral DNA, leading to G-to-A hypermutations in the subsequent plus-strand viral DNA. The resultant detrimental levels of mutations in the proviral genome, along with a deamination-independent mechanism that works prior to the proviral integration, together exert efficient antiretroviral effects in infected target cells. Selectively targets single-stranded DNA and does not deaminate double-stranded DNA or single- or double-stranded RNA. Exhibits antiviral activity also against simian immunodeficiency viruses (SIVs), hepatitis B virus (HBV), equine infectious anemia virus (EIAV), xenotropic MuLV-related virus (XMRV) and simian foamy

Target Details

	virus (SFV). May inhibit the mobility of LTR and non-LTR retrotransposons. {ECO:0000269|PubMed:12167863, ECO:0000269|PubMed:12808465, ECO:0000269|PubMed:12808466, ECO:0000269|PubMed:12809610, ECO:0000269|PubMed:12859895, ECO:0000269|PubMed:12970355, ECO:0000269|PubMed:14528300, ECO:0000269|PubMed:14557625, ECO:0000269|PubMed:15031497, ECO:0000269|PubMed:16378963, ECO:0000269|PubMed:16527742, ECO:0000269|PubMed:18288108, ECO:0000269|PubMed:19458006, ECO:0000269|PubMed:20219927, ECO:0000269|PubMed:20335265, ECO:0000269|PubMed:21123384, ECO:0000269|PubMed:21835787, ECO:0000269|PubMed:22791714, ECO:0000269|PubMed:22807680, ECO:0000269|PubMed:22915799, ECO:0000269|PubMed:23097438, ECO:0000269|PubMed:23152537}.
Molecular Weight:	46.4 kDa
UniProt:	Q9HC16

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months