Probable DNA Dc->Du-Editing Enzyme APOBEC-3d (APOBEC3D) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable DNA dC->dU-editing enzyme APOBEC-3D (APOBEC3D), Recombinant Protein
Full Product Name	Recombinant Human Probable DNA dC->dU-editing enzyme APOBEC-3D (APOBEC3D)
Product Gene Name	APOBEC3D recombinant protein
Product Synonym Gene Name	APOBEC3D
Sequence	MNPQIRNPME RMYRDTFYDN FENEPILYGR SYTWLCYEVK IKRGRSNLLW DTGVFRGPVL PKRQSNHRQE VYFRFENHAE MCFLSWFCGN RLPANRRFQI TWFVSWNPCL PCVVKVTKFL AEHPNVTLTI SAARLYYYRD RDWRWVLLRL HKAGARVKIM DYEDFAYCWE NFVCNEGQPF MPWYKFDDNY ASLHRTLKEI LRNPMEAMYP HIFYFHFKNL LKACGRNESW LCFTMEVTKH HSAVFRKRGV FRNQVDPETH CHAERCFLSW FCDDILSPNT NYEVTWYTSW SPCPECAGEV AEFLARHSNV NLTIFTARLC YFWDTDYQEG LCSLSQEGAS VKIMGYKDFV SCWKNFVYSD DEPFKPWKGL QTNFRLLKRR LREILQ
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	46,598 Da
Sequence Positions	1-386, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	609900
3D Structure	ModBase 3D Structure for Q96AK3
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for APOBEC3D recombinant protein	This gene is a member of the cytidine deaminase gene family. It is one of a group of related genes found in a cluster, thought to result from gene duplication, on chromosome 22. Members of the cluster encode proteins that are structurally and functionally related to the C to U RNA-editing cytidine deaminase APOBEC1 and inhibit retroviruses, such as HIV, by deaminating cytosine residues in nascent retroviral cDNA.
Other Notes	Small volumes of APOBEC3D recombinant protein 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 APOBEC3D purchase	MBS1349231 is a recombinant protein targeting APOBEC3D. Also known as Recombinant Human Probable DNA dC->dU-editing enzyme APOBEC-3D (APOBEC3D). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for APOBEC3D. It may not necessarily be applicable to this product.

NCBI GI #	48474596
NCBI GeneID	140564
NCBI Accession #	Q96AK3.1
UniProt Primary Accession #	Q96AK3
UniProt Secondary Accession #	Q5JZ91; Q7Z2N2; Q7Z2N5; Q7Z2N6
UniProt Related Accession #	Q96AK3
NCBI Official Full Name	DNA dC-&gt
NCBI Official Synonym Full Names	apolipoprotein B mRNA editing enzyme catalytic subunit 3D
NCBI Official Symbol	APOBEC3D
NCBI Official Synonym Symbols	A3D; ARP6; APOBEC3E; APOBEC3DE
UniProt Protein Name	DNA dC->dU-editing enzyme APOBEC-3D
Protein Family	DNA dC->dU-editing enzyme
UniProt Gene Name	APOBEC3D
UniProt Synonym Gene Names	A3D
NCBI Protein Information	DNA dC->dU-editing enzyme APOBEC-3D
UniProt Comments for APOBEC3D	DNA deaminase (cytidine deaminase) which acts as an inhibitor of retrovirus replication and retrotransposon mobility via deaminase-dependent and -independent mechanisms. Exhibits 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. May inhibit the mobility of LTR and non-LTR retrotransposons.
Research Articles on APOBEC3D	**1.** APOBEC3DE inhibits human LINE-1 retrotransposition.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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