

Datasheet for ABIN7551788  
**APOBEC3D Protein (AA 1-386) (His tag)**



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## Overview

Quantity:	1 mg
Target:	APOBEC3D
Protein Characteristics:	AA 1-386
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This APOBEC3D protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant APOBEC3D Protein expressed in mammalian cells.
Sequence:	MNPQIRNPME RMYRDTFYDN FENEPILYGR SYTWLCYEVK IKRGRSNLLW DTGVFRGPVL PKRQSNHRQE VYFRFENHAE MCFLSWFCGN RLPANRRFQI TWFVSWNPCL PCVVKVTKFL AEHPNVTLLI SAARLYYYRD RDWRWVLLRL HKAGARVKIM DYEDFAYCWE NFVCNEGQPF MPWYKFDDNY ASLHRTLKEI LRNPMEAMYP HIFYFHFKNL LKACGRNESW LCFTMEVTKH HSAVFRKRGV FRNQVDPETH CHAERCFLSW FCDDILSPNT NYEVTWYTSW SPCPECAGEV AEFLARHSNV NLTIFTARLC YFWDDTYQEG LCSLSQEGAS VKIMGYKDFV SCWKNFVYSD DEPFKPWKGL QTNFRLLKRR LREILQ <b>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.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

## Product Details

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- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian 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.

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Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

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## Target Details

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Target:	APOBEC3D
Alternative Name:	APOBEC3D ( <a href="#">APOBEC3D Products</a> )
Background:	DNA dC->dU-editing enzyme APOBEC-3D (A3D) (A3DE) (EC 3.5.4.38),FUNCTION: DNA deaminase (cytidine deaminase) which acts as an inhibitor of retrovirus replication and retrotransposon mobility via deaminase-dependent and -independent mechanisms (PubMed:16920826, PubMed:20062055, PubMed:21835787). Exhibits antiviral activity against 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 (PubMed:16920826). 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. Inhibits also the mobility of LTR and non-LTR retrotransposons (PubMed:27428332). {ECO:0000269 PubMed:12859895, ECO:0000269 PubMed:16920826, ECO:0000269 PubMed:20062055, ECO:0000269 PubMed:21835787,

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## Target Details

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ECO:0000269|PubMed:22807680, ECO:0000269|PubMed:23097438,  
ECO:0000269|PubMed:23152537}, FUNCTION: (Microbial infection) Enhances hepatitis B  
virus/HBV replication by excluding restriction factors APOBEC3F and APOBEC3G from HBV  
capsids. {ECO:0000269|PubMed:27289067}.

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Molecular Weight: 46.6 kDa

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UniProt: [Q96AK3](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months