

Datasheet for ABIN7551758

APOBEC3F Protein (AA 1-373) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	APOBEC3F
Protein Characteristics:	AA 1-373
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This APOBEC3F protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant APOBEC3F Protein expressed in mammalian cells.
Sequence:	MKPHFRNTVE RMYRDTFSYN FYNRPILSRR NTVWLCYEVK TKGPSRPRLD AKIFRGQVYS QPEHHAEMCF LSWFCGNQLP AYKCFQITWF VSWTPCPDCV AKLAEFLAEH PNVTLTISAA RLYYYWERDY RRALCRLSQA GARVKIMDDE EFAYCWENFV YSEGQPFMPW YKFDDNYAFL HRTLKEILRN PMEAMYPHIF YHFHKNLRKA YGRNESWLFC TMEVVKHHSP VSWKRGVFRN QVDPETHCHA ERCFLSWFCD DILSPNTNVE VTWYTSWSPC PECAGEVAEF LARHSNVNLT IFTARLYYFW DTDYQEGLRS LSQEGASVEI MGYKDFKYCW ENFVYNDDEP FKPWKGLKYN FLFLDSKLQE ILE 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.
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

- 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.

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

Target Details

Target:	APOBEC3F
Alternative Name:	APOBEC3F (APOBEC3F Products)
Background:	<p>DNA dC->dU-editing enzyme APOBEC-3F (EC 3.5.4.38) (Apolipoprotein B mRNA-editing enzyme catalytic polypeptide-like 3F) (A3F),FUNCTION: 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 viruse such as HIV-1 or HIV-2 (PubMed:15141007, PubMed:15152192, PubMed:23001005, PubMed:34774569).</p> <p>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:15141007). 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 hepatitis B virus (HBV), equine infectious anemia virus (EIAV), xenotropic MuLV-related virus (XMRV) and simian foamy virus (SFV) and may</p>

Target Details

inhibit the mobility of LTR and non-LTR retrotransposons. May also play a role in the epigenetic regulation of gene expression through the process of active DNA demethylation.

{ECO:0000269|PubMed:15141007, ECO:0000269|PubMed:15152192, ECO:0000269|PubMed:16378963, ECO:0000269|PubMed:16527742, ECO:0000269|PubMed:19458006, ECO:0000269|PubMed:20062055, ECO:0000269|PubMed:20219927, ECO:0000269|PubMed:20335265, ECO:0000269|PubMed:21496894, ECO:0000269|PubMed:21835787, ECO:0000269|PubMed:22807680, ECO:0000269|PubMed:22915799, ECO:0000269|PubMed:23001005, ECO:0000269|PubMed:23097438, ECO:0000269|PubMed:23152537, ECO:0000269|PubMed:34774569}.

Molecular Weight: 45.0 kDa

UniProt: [Q8IUX4](#)

Application Details

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.

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