

Recombinant Human APOBEC3A Protein (1-199 aa), His-SUMO-tagged

Cat. No. APOBEC3A-1784H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human APOBEC3A Protein (1-199 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Protein Description: Full Length.
Species	Human
Source	E.coli
ProteinLength	1-199 aa
Description	DNA deaminase (cytidine deaminase) with restriction activity against viruses, foreign DNA and mobility of retrotransposons. Exhibits antiviral activity against adeno-associated virus (AAV) and human T-cell leukemia virus type 1 (HTLV-1) and may inhibit the mobility of LTR and non-LTR retrotransposons. Selectively targets single-stranded DNA and can deaminate both methylcytosine and cytosine in foreign DNA. Can induce somatic hypermutation in the nuclear and mitochondrial DNA. May also play a role in the epigenetic regulation of gene expression through the process of active DNA demethylation.
Form	Tris-based buffer,50% glycerol
Molecular Mass	39.0 kDa
AA Sequence	MEASPASGPRHLMDPHIFTSNFNNGIGRHKTYLCYEVEERLDNGTSVKMDQHRGFLH

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NQAKNLLCGFYGRHAELRFLDLVPSLQLDPAQIYRVTWFIWSPCFSWGCAGEVRA
 FLQENTHVRLRIFAARIYDYDPLYKEALQMLRDAGAQVSIMTYDEFKHCWDTFVDHQ
 GCPFQPWDGLDEHSQALSGRLRAILQNQGN

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name [APOBEC3A apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3A \[Homo sapiens \]](#)

Official Symbol [APOBEC3A](#)

Synonyms APOBEC3A; ARP3; phorbolin I; PHRBN;

Gene ID [140561](#)

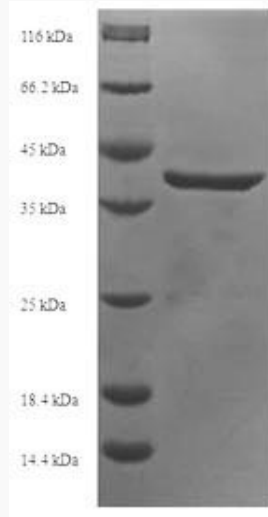
MIM [607109](#)

UniProt ID [P31941](#)

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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