

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

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | 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.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 1-199 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | 39.0 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | MEASPASGPRHLMDPHIFTSNFNNGIGRHKTYLCYEVLRLDNGTSVKMDQHRGFLH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|                      |                                                                                                                                                                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | NQAKNLLCGFYGRHAELRFLDLVPSLQLDPAQIYRVTFISWSPCFSWGCAGEVRA<br>FLQENTHVRLRIFAARIYDYDPLYKEALQMLRDAGAQVSIMTYDEFKHCWDTFVDHQ<br>GCPFQPWDGLDEHSQALSGRLRAILQNQGN                                                                                                                                                              |
| <b>Purity</b>        | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                    |
| <b>Notes</b>         | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                        |
| <b>Storage</b>       | 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. |
| <b>Concentration</b> | A hardcopy of COA with reconstitution instruction is sent along with the products.                                                                                                                                                                                                                                  |

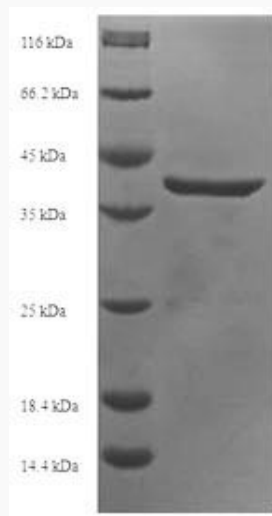
## GENE INFORMATION

|                        |                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | APOBEC3A apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3A [ Homo sapiens ] |
| <b>Official Symbol</b> | APOBEC3A                                                                                      |
| <b>Synonyms</b>        | APOBEC3A; ARP3; phorbolin I; PHRBN;                                                           |
| <b>Gene ID</b>         | 140561                                                                                        |
| <b>MIM</b>             | 607109                                                                                        |
| <b>UniProt ID</b>      | P31941                                                                                        |

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

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