

## Recombinant Mouse App Protein, His Tagged

**Cat. No.** App-11208M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Mouse N-APP, His Tag is expressed from human 293 cells (HEK293). It contains AA Leu 18-Val 286 (Accession # P12023-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Leu 18                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 18-286 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Amyloid precursor protein (APP) is a type I integral membrane protein ubiquitously expressed in many tissues and concentrated in the synapses of neurons. The majority of APP is cleaved at the plasma membrane by the $\alpha$ -secretase in the non-amyloidogenic pathway. The amyloidogenic pathway starts with $\beta$ -secretase cleavage by BACE1 on the N-terminal part of the A $\beta$ domain, releasing sAPP $\beta$ from a membrane-anchored fragment named $\beta$ CTF or C102, which is subsequently cleaved by $\gamma$ -secretase to release A $\beta$ . |
| <b>Form</b>             | Lyophilized from 0.22 $\mu$ m filtered solution in PBS, pH7.4 with trehalose as protectant.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 31.9 kDa. The protein migrates as 38-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Endotoxin</b>        | Less than 1.0 EU/ $\mu$ g by the LAL method/rFC method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|                       |                                                                                                                                                                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | >95% as determined by SDS-PAGE. >95% as determined by SEC-MALS.                                                                                                                                                                                                                                                              |
| <b>Storage</b>        | This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.                                                                                                                                       |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | App amyloid beta (A4) precursor protein [ Mus musculus (house mouse) ]                                                                                                                                                        |
| <b>Official Symbol</b> | App                                                                                                                                                                                                                           |
| <b>Synonyms</b>        | APP; amyloid beta (A4) precursor protein; amyloid beta A4 protein; appican; protease nexin II; amyloidogenic glycoprotein; alzheimer disease amyloid A4 protein homolog; Ag; Abpp; Adap; Cvap; Abeta; betaApp; E030013M08Rik; |
| <b>Gene ID</b>         | 11820                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>     | NM_001198823                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>  | NP_001185752                                                                                                                                                                                                                  |
| <b>UniProt ID</b>      | P12023                                                                                                                                                                                                                        |

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