

Recombinant Mouse App Protein, His Tagged

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

SPECIFICATION

Product Overview	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
Species	Mouse
Source	HEK293
ProteinLength	18-286 aa
Description	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 α -secretase in the non-amyloidogenic pathway. The amyloidogenic pathway starts with β -secretase cleavage by BACE1 on the N-terminal part of the A β domain, releasing sAPP β from a membrane-anchored fragment named β CTF or C102, which is subsequently cleaved by γ -secretase to release A β .
Form	Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4 with trehalose as protectant.
Molecular Mass	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.
Endotoxin	Less than 1.0 EU/ μ g by the LAL method/rFC method.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>95% as determined by SDS-PAGE. >95% as determined by SEC-MALS.
Storage	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.
Reconstitution	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

Gene Name	App amyloid beta (A4) precursor protein [Mus musculus (house mouse)]
Official Symbol	App
Synonyms	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;
Gene ID	11820
mRNA Refseq	NM_001198823
Protein Refseq	NP_001185752
UniProt ID	P12023

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