

Recombinant Rat App Protein, His&GST-tagged

Cat. No. App-232R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat App Protein (Leu18-Val286) with N-His&GST tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Leu18-Val286
Description	Enables growth factor receptor binding activity and peptidase activator activity. Involved in several processes, including cellular response to metal ion; defense response to other organism; and positive regulation of MAPK cascade. Located in several cellular components, including astrocyte projection; axon; and rough endoplasmic reticulum. Used to study Alzheimer's disease. Biomarker of Alzheimer's disease; diabetic encephalopathy; hypertension; iron deficiency anemia; and middle cerebral artery infarction. Human ortholog(s) of this gene implicated in APP-related cerebral amyloid angiopathy; Alzheimer's disease; Alzheimer's disease 1; cognitive disorder; and visual epilepsy. Orthologous to human APP (amyloid beta precursor protein).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 60 kDa Accurate Molecular Mass: 60 kDa

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	App amyloid beta (A4) precursor protein [Rattus norvegicus (Norway rat)]
Official Symbol	App
Synonyms	APP; amyloid beta (A4) precursor protein; amyloid beta A4 protein; AG; ABPP; amyloidogenic glycoprotein; alzheimer disease amyloid A4 protein homolog
Gene ID	54226
mRNA Refseq	NM_019288
Protein Refseq	NP_062161

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UniProt ID

P08592

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