

Recombinant Human APLP1, His-tagged

Cat. No. APLP1-26119TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 274-651 of Human APLP1 with an N-terminal His tag; Predicted MWt 43 kDa.
Species	Human
Source	E.coli
ProteinLength	274-651 a.a.
Description	This gene encodes a member of the highly conserved amyloid precursor protein gene family. The encoded protein is a membrane-associated glycoprotein that is cleaved by secretases in a manner similar to amyloid beta A4 precursor protein cleavage. This cleavage liberates an intracellular cytoplasmic fragment that may act as a transcriptional activator. The encoded protein may also play a role in synaptic maturation during cortical development. Alternatively spliced transcript variants encoding different isoforms have been described.
Conjugation	HIS
Tissue specificity	Expressed in the cerebral cortex where it is localized to the postsynaptic density (PSD).
Form	Lyophilised:Reconstitute with 58 µl aqua dest
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium

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phosphate, 10mM Sodium chloride, pH 4.5

Storage

Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

Sequences of amino acids

SSHTLAVVGKVTPTPRPTDGVDIYFGMPGEISEHEGFLRA KMDLEERRMRQINEVM
 REWAMADNQSKNLPKADRQALN EHFQSILQTLEEQVSGERQRLVETHATRVIALIN
 DQRR AALEGFLAALQADPPQAERVLLALRRYLRAEQKEQRHT LRHYQHVAAVDPE
 KAQQMRFQVHHLQVIEERVNQLGLL DQNPHLAQELRPQIQELLHSEHLGPSELE
 APAPGGSSSE DKGGGLQPPDSKDADTPMTLPKGSTEQDAASPEKEKMNP LEQYERK
 VNASVPRGFPHSSEIQRDELAPAGTGVSRE AVSGLLIMGAGGGSLIVLSMLLLRRK
 KPYGAISHGVVEVD PMLTLEEQLRELQRHGYENPTYRFLEERP

Sequence Similarities

Belongs to the APP family.

GENE INFORMATION

Gene Name

[APLP1 amyloid beta \(A4\) precursor-like protein 1 \[Homo sapiens \]](#)

Official Symbol

[APLP1](#)

Synonyms

APLP1; amyloid beta (A4) precursor-like protein 1; amyloid-like protein 1; amyloid precursor like protein 1; amyloid like protein 1; APLP;

Gene ID

[333](#)

mRNA Refseq

[NM_001024807](#)

Protein Refseq

[NP_001019978](#)

MIM

[104775](#)

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Uniprot ID	P51693
Chromosome Location	19q
Function	alpha-2A adrenergic receptor binding; alpha-2B adrenergic receptor binding; alpha-2C adrenergic receptor binding; heparin binding; identical protein binding;

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