

APH1A Protein, Human (Cell-Free, His, SUMO)

Cat. No.:	HY-P702211
Synonyms:	Gamma-secretase subunit APH-1A; Aph-1alpha; Presenilin-stabilization factor
Species:	Human
Source:	E. coli Cell-free
Accession:	Q96BI3 (M1-D247)
Gene ID:	51107
Molecular Weight:	Observed band size: Monomer: 40 kDa Dimer: 90 kDa It is speculated that the protein forms a dimeric structure.

PROPERTIES

AA Sequence	<p> M G A A V F F G C T F V A F G P A F A L F L I T V A G D P L R V I I L V A G A F F W L V S L L L A S V V W F I L V H V T D R S D A R L Q Y G L L I F G A A V S V L L Q E V F R F A Y Y K L L K K A D E G L A S L S E D G R S P I S I R Q M A Y V S G L S F G I I S G V F S V I N I L A D A L G P G V V G I H G D S P Y Y F L T S A F L T A A I I L L H T F W G V V F F D A C E R R R Y W A L G L V V G S H L L T S G L T F L N P W Y E A S L L P I Y A V T V S M G L W A F I T A G G S L R S I Q R S L L C K D </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of 20 mM Tris-HCl, 0.15 M NaCl, 0.05% FOS12, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	APH1A protein serves as a non-catalytic subunit within the gamma-secretase complex, an endoprotease assembly crucial
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for catalyzing the intramembrane cleavage of integral membrane proteins, including Notch receptors and APP (amyloid-beta precursor protein). Its involvement in gamma-secretase assembly is essential, contributing to the normal formation of this complex. The gamma-secretase complex, comprising a presenilin homodimer (PSEN1 or PSEN2), nicastrin (NCSTN), APH1 (APH1A or APH1B), and PSENEN/PEN2, plays a pivotal role in various cellular processes, such as Notch and Wnt signaling cascades, as well as the regulation of downstream events by processing key regulatory proteins. Additionally, it is implicated in modulating cytosolic CTNNB1 levels, highlighting its significance in diverse cellular pathways.

Caution: Product has not been fully validated for medical applications. For research use only.

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