

## APLP-1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P75582
Synonyms:	Amyloid beta precursor like protein 1; Amyloid-like protein 1; APLP-1; C30
Species:	Mouse
Source:	HEK293
Accession:	Q03157 (N39-E584)
Gene ID:	11803
Molecular Weight:	Approximately 62.4 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
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	<p>The APLP-1 protein may have a role in postsynaptic function, suggesting its involvement in the intricate processes occurring at the synaptic sites. The C-terminal fragment resulting from gamma-secretase processing, ALID1, exhibits the ability to activate transcription through binding to APBB1 (Fe65). APLP-1 is also implicated in JIP signal transduction by interacting with the C-terminal region. Moreover, it appears to engage with cellular G-protein signaling pathways, indicating its potential influence on diverse cellular signaling mechanisms. Additionally, APLP-1 can regulate neurite outgrowth by binding to extracellular matrix components such as heparin and collagen I. However, the gamma-CTF peptide, C30, derived from APLP-1, is noteworthy for its potent enhancement of neuronal apoptosis, underscoring the dual nature of APLP-1's functional effects in cellular processes. Further exploration into the specific mechanisms underlying these diverse roles could provide valuable insights into the multifaceted functions of APLP-1 in neural development and homeostasis.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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