

Amyloid Precursor Protein, Human (HEK293, Fc)

Cat. No.:	HY-P7501
Synonyms:	rHuAmyloid Precursor, C-Fc; Amyloid-Precursor
Species:	Human
Source:	HEK293
Accession:	P05067-4 (L18-K612)
Gene ID:	351
Molecular Weight:	120-145 kDa

PROPERTIES

AA Sequence

LEVP TDGNAG	LLAEPQIAMF	CGRLNMHMNV	QNGKWDSDPS
GTKTCIDTKE	GILQYCQEVY	PELQITNVVE	ANQPVTIQNW
CKRGRKQCKT	HPHFVIPYRC	LVGEFVSDAL	LVPDKCKFLH
QERMDVCETH	LHWHTVAKET	CSEKSTNLHD	YGMLLPCGID
KFRGVEFVCC	PLAEEESDNVD	SADAEEDDSD	VWWGGADTDY
ADGSEDKVVE	VAEEEEVAEV	EEEEADDDDED	DEDGDEVEEE
AEEP YEEATE	RTTSIATTTT	TTTESVEEVV	RVPTTAASTP
DAVDKYLETP	GDENEHAHFQ	KAKERLEAKH	RERMSQVMRE
WEEAERQAKN	LPKADKKAVI	QHFQEKVESL	EQEAAANERQQ
LVETHMARVE	AMLNDRRRLA	LENYITALQA	VPPRPRHVFN
MLKKYVRAEQ	KDRQHTLKHf	EHVRMVDPKK	AAQIRSQVMT
HLRV IYERMN	QSLSLLYNVP	AVAAEIQDEV	DELLQKEQNY
SDDVLANMIS	EPRISYGND A	LMPSLTETKT	TVELLPVNGE
FSLDDLQPWH	SFGADSV PAN	TENEVEPVDA	RPAADRGLTT
RPGSGLTNIK	TEEISEVKMD	AEFRHDSGYE	VHHQK

Appearance Lyophilized powder.

Formulation Lyophilized after extensive dialysis against PBS, pH 7.4.

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 ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

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

Recombinant Human Amyloid Precursor is a single-pass transmembrane protein expressed at high levels in the brain and metabolized in a rapid and highly complex fashion by a series of sequential protease, including the intramembranous γ -secretase complex.

Human Amyloid Precursor is a disulfide-linked homodimeric protein after removal of the signal peptide, it modulates cell growth, motility, neurite outgrowth, and cell survival, functions that can be reproduced by the soluble ectodomain, which is released by cleavage of APP. Human Amyloid Precursor protein and amyloid beta alter bioenergetic pathways and mitochondrial function^{[1][2]}.

REFERENCES

[1]. Richard J O'Brien, et al. Amyloid precursor protein processing and Alzheimer's disease. *Annu Rev Neurosci.* 2011;34:185-204.

[2]. Heather M Wilkins, et al. Amyloid precursor protein processing and bioenergetics. *Brain Res Bull.* 2017 Jul;133:71-79.

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

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