

Recombinant Full Length Human presenilin 1 Protein, Flag tagged

Cat. No. PSEN1-23HFL Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant protein of human presenilin 1 (PSEN1), transcript variant 1 with C-Myc/DDK tag was expressed in HEK293.

Species

Human

Source

HEK293

ProteinLength

1-467aa

Description

Alzheimer's disease (AD) patients with an inherited form of the disease carry mutations in the presenilin proteins (PSEN1; PSEN2) or in the amyloid precursor protein (APP). These disease-linked mutations result in increased production of the longer form of amyloid-beta (main component of amyloid deposits found in AD brains). Presenilins are postulated to regulate APP processing through their effects on gamma-secretase, an enzyme that cleaves APP. Also, it is thought that the presenilins are involved in the cleavage of the Notch receptor, such that they either directly regulate gamma-secretase activity or themselves are protease enzymes. Several alternatively spliced transcript variants encoding different isoforms have been identified for this gene, the full-length nature of only some have been determined.

Tag

C-Flag

Molecular Mass

52.5 kDa

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AA Sequence

MTELPAPLSYFQNAQMSEDNHLSENTVRSQNDNRERQEHNDRRSLGHPEPLSNGRP
 QGNSRQVVEQDEEEDEELTKYGAKHVIMLFVPVTLQMVVVVATIKSVSFYTRKDGQ
 LIYTPFTEDTETVGQRALHSILNAAIMISVIVVMTILLVVLYKYRCYKVIHAWLISSLLLL
 FFFSFIYLGEVFKTYNVAVDYITVALLIWNFGVVMISIHWKGPLRLQQAYLIMISALM
 ALVFIKYLPEWTAWLILAVISVYDLVAVLCPKGPLRMLVETAQERNETLFPALIYSSTM
 VWLVNMAEGDPEAQRVSKNSKYNAESTERESQDTVAENDDGGFSEWEAQRDS
 HLGPHRSTPESRAAVQELSSSILAGEDPEERGVKLGDFIFYSVLVGKASATASGD
 WNTTIACFVAILIGLCLLLLLAIFKKALPALPISITFGLVIFYFATDYLVQPFMDQLAFHQ
 FYITRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade.

Concentration > 0.05 µg/µL as determined by microplate BCA method

Storage Buffer 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Notes For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

GENE INFORMATION

Gene Name PSEN1 presenilin 1 [Homo sapiens (human)]

Official Symbol PSEN1

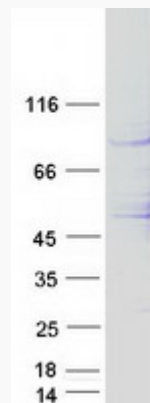
Synonyms PSEN1; presenilin 1; AD3; FAD; PS1; PS-1; S182; PSNL1; ACNINV3; presenilin-1;

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familial Alzheimer Disease; EC 3.4.23.-

Gene ID 5663**mRNA Refseq** NM_000021**Protein Refseq** NP_000012**MIM** 104311**UniProt ID** P49768**SDS-PAGE** Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA