

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	MTELPAPLSYFQNAQMSEDNHLSENTVRSQNDNRERQEHNDRRLSLGHPEPLSNGRP QGNSRQVVEQDEEEDEELTLKYGAKHVIMLFVPVTLCMVVVVATIKSVSFYTRKDGQ LIYTPFTEDTETVGQRALHSILNAAIMISVIVVMTILLVVLYKYRCYKVIHAWLISSLLLL FFFSFIYLGVEFKTYNVAVDYITVALLIWNFGVVMISIHWKGPLRLQQAYLIMISALM ALVFIKYLPEWTAWLILAVISVYDLVAVLCPKGPLRMLVETAQERNETLFPALIYSSTM VWLVNMAEGDPEAQRRVSKNSKYNAESTERESQDTVAENDDGGFSEWEAQRDS HLGPHRSTPESRAAVQELSSSILAGEDPEERGVLGLGDFIFYSVLVGKASATASGD WNTTIACFVAILIGLCLTLLLLAIFKKALPALPISITFGLVFYFATDYLVPFMDQLAFHQ 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

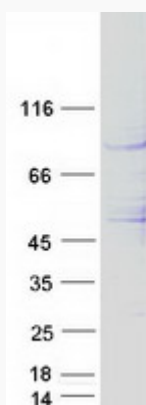
mRNA Refseq NM_000021

Protein Refseq NP_000012

MIM 104311

UniProt ID P49768

SDS-PAGE



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