

Recombinant Human PSEN1

Cat. No. PSEN1-29963TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Presenilin 1 with N terminal proprietary tag, 36.63kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	Alzheimers 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.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Expressed in a wide range of tissues including various regions of the brain, liver, spleen and lymph nodes.

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PALIYSSTMVWLVNMAEGDPEAQRRVSKNSKYNAESTERESQDTVAENDDGGGFSE EWEAQQRDSHLGPHRSTPESRAAVQELSSSILAGEDPEERGVKLGL
Sequence Similarities	Belongs to the peptidase A22A family.

GENE INFORMATION

Gene Name	PSEN1 presenilin 1 [Homo sapiens]
Official Symbol	PSEN1
Synonyms	PSEN1; presenilin 1; AD3, Alzheimer disease 3; presenilin-1; FAD; PS1; S182;
Gene ID	5663
mRNA Refseq	NM_000021
Protein Refseq	NP_000012
MIM	104311
Uniprot ID	P49768

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Chromosome Location	14q24.3
Pathway	A third proteolytic cleavage releases NICD, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Cell death signalling via NRAGE, NRIF and NADE, organism-specific biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem;
Function	PDZ domain binding; aspartic-type endopeptidase activity; beta-catenin binding; cadherin binding; calcium channel activity;

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