

Recombinant Human PSEN2

Cat. No. PSEN2-28527TH Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant fragment corresponding to amino acids 1-86 of Human Presenilin 2 with an N terminal proprietary tag; Predicted MWt 35.09 kDa.

Species Human

Source Wheat Germ

ProteinLength 86 amino acids

Description Alzheimers disease (AD) patients with an inherited form of the disease carry mutations in the presenilin proteins (PSEN1 or PSEN2) or 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 act as protease enzymes. Two alternatively spliced transcript variants encoding different isoforms of PSEN2 have been identified.

Molecular Weight 35.090kDa inclusive of tags

Tissue specificity Isoform 1 is seen in the placenta, skeletal muscle and heart while isoform 2 is seen in the heart, brain, placenta, liver, skeletal muscle and kidney.

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 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	MLTFMASDSEEEVCDERTSLMSAESPTPRSCQEGRQGPEDGENTAQWRSQENEE DGEEDPDRYVCSGVPGRPPGLEEELTLKYGAK
Sequence Similarities	Belongs to the peptidase A22A family.

GENE INFORMATION

Gene Name	PSEN2 presenilin 2 (Alzheimer disease 4) [Homo sapiens]
Official Symbol	PSEN2
Synonyms	PSEN2; presenilin 2 (Alzheimer disease 4); AD4; presenilin-2; AD3L; PS2; STM2;
Gene ID	5664
mRNA Refseq	NM_000447
Protein Refseq	NP_000438
MIM	600759
Uniprot ID	P49810

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**Chromosome
Location**

1q31-q42

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

aspartic-type endopeptidase activity; endopeptidase activity; endopeptidase activity; peptidase activity; protein binding;

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