



Human PSEN1 peptide (DAG-P1878)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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. [provided by RefSeq, Aug 2008]
Specificity	Expressed in a wide range of tissues including various regions of the brain, liver, spleen and lymph nodes.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the peptidase A22A family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

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

Official Symbol	PSEN1
Synonyms	PSEN1; presenilin 1; AD3; FAD; PS1; PS-1; S182; presenilin-1;
Entrez Gene ID	5663
mRNA Refseq	NM_000021.3
Protein Refseq	NP_000012.1
UniProt ID	P49768
Chromosome Location	14q24.3
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Alzheimers Disease, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Neurotrophin signaling pathway, organism-specific biosystem; Neurotrophin signaling pathway, conserved biosystem; Notch Signaling Pathway, organism-specific biosystem;
Function	PDZ domain binding; aspartic-type endopeptidase activity; beta-catenin binding; cadherin binding; calcium channel activity; endopeptidase activity; protein binding;