

## Recombinant Human PSEN1

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

### SPECIFICATION

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	PALIYSSTMVWLVNMAEGDPEAQRVSKNSKYNAESTERESQDTVAENDDGGFSE EWEAQRDShLGPHRSTPESRAAVQELSSILAGEDPEERGVKLGL
<b>Sequence Similarities</b>	Belongs to the peptidase A22A family.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">PSEN1 presenilin 1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">PSEN1</a>
<b>Synonyms</b>	PSEN1; presenilin 1; AD3, Alzheimer disease 3; presenilin-1; FAD; PS1; S182;
<b>Gene ID</b>	<a href="#">5663</a>
<b>mRNA Refseq</b>	<a href="#">NM_000021</a>
<b>Protein Refseq</b>	<a href="#">NP_000012</a>
<b>MIM</b>	<a href="#">104311</a>
<b>Uniprot ID</b>	<a href="#">P49768</a>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Chromosome Location</b>	14q24.3
<b>Pathway</b>	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;
<b>Function</b>	PDZ domain binding; aspartic-type endopeptidase activity; beta-catenin binding; cadherin binding; calcium channel activity;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA