

## Product datasheet for PH316443

### Presenilin 1 (PSEN1) (NM\_000021) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PSEN1 MS Standard C13 and N15-labeled recombinant protein (NP_000012)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216443
Predicted MW:	52.5 kDa
Protein Sequence:	>RC216443 representing NM_000021 Red=Cloning site Green=Tags(s)

MTELPAPLSYFQNAQMSEDNHL SNTVRSQNDNRERQEHNDRRSLGHPEPLSNGRPQGNSRQVVEQDEEED  
EELTLKYGAKHVIMLFVPVTL CMVVVATIKSVSFYTRKDGQLIYTPFTEDTETVGQRALHSILNAAIMI  
SVIVVMTILLVVLKYRCYKVIHAWLIISL LLLFFF SF IYLGEVFKTYNVAVDYITVALLIWNFGVVGM  
ISIHWKGPLRLQQA YLIMISALMALVFIKYLPEWTAWLILAVISVYDLVAVLCPKGPLRMLVETAQERNE  
TLFPAL IYSSTMVWL VNMAEGDPEAQR RVSKNSKYNAESTERESQDTVAENDDGGFSEWEAQRD SHLGP  
HRSTPESRAAVQELSSSILAGEDPEERGVKLGDFIFYSVLVGKASATASGDWNTTIACFVAILIGLCL  
TL LLLAIFKKALPALPISITFGLVFYFATDYLVQPFMDQLAFHQFYI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000012</u>
RefSeq Size:	2763
RefSeq ORF:	1401
Synonyms:	ACNINV3; AD3; FAD; PS-1; PS1; S182



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Locus ID: 5663

UniProt ID: [P49768](#), [A0A024R6A3](#)

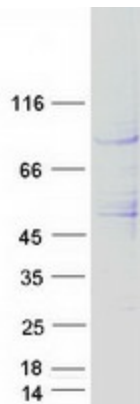
Cytogenetics: 14q24.2

**Summary:** 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. [provided by RefSeq, Aug 2008]

**Protein Families:** Druggable Genome, Protease, Transmembrane

**Protein Pathways:** Alzheimer's disease, Neurotrophin signaling pathway, Notch signaling pathway, Wnt signaling pathway

### Product images:



Coomassie blue staining of purified PSEN1 protein (Cat# [TP316443]). The protein was produced from HEK293T cells transfected with PSEN1 cDNA clone (Cat# [RC216443]) using MegaTran 2.0 (Cat# [TT210002]).