

## Product datasheet for PH303272

### PEN2 (PSENE1) (NM\_172341) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PSENE1 MS Standard C13 and N15-labeled recombinant protein (NP_758844)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203272
Predicted MW:	12 kDa
Protein Sequence:	>RC203272 protein sequence Red=Cloning site Green=Tags(s)  MNLERSVNEEKLNLCKRYLGGFAFLPFLWLVNIFWFFREAFVLPAYTEQSQIKGYVWRSVAVGFLFWIV LTSWITIFQIYRPRWGALGDYLSFTIPLGTP  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	<a href="#">NP_758844</a>
RefSeq Size:	834
RefSeq ORF:	303
Synonyms:	ACNINV2; MDS033; MSTP064; PEN-2; PEN2
Locus ID:	55851
UniProt ID:	<a href="#">Q9NZ42</a>
Cytogenetics:	19q13.12



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**Summary:**

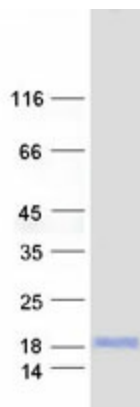
Presenilins, which are components of the gamma-secretase protein complex, are required for intramembranous processing of some type I transmembrane proteins, such as the Notch proteins and the beta-amyloid precursor protein. Signaling by Notch receptors mediates a wide range of developmental cell fates. Processing of the beta-amyloid precursor protein generates neurotoxic amyloid beta peptides, the major component of senile plaques associated with Alzheimer's disease. This gene encodes a protein that is required for Notch pathway signaling, and for the activity and accumulation of gamma-secretase. Mutations resulting in haploinsufficiency for this gene cause familial acne inversa-2 (ACNINV2). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

Alzheimer's disease, Notch signaling pathway

**Product images:**

Coomassie blue staining of purified PSENEN protein (Cat# [TP303272]). The protein was produced from HEK293T cells transfected with PSENEN cDNA clone (Cat# [RC203272]) using MegaTran 2.0 (Cat# [TT210002]).