

**PSEN2(Presenilin-2 CTF subunit) Blocking Peptide (C-term)**  
**Synthetic peptide**  
**Catalog # BP20576c****Specification**

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**PSEN2(Presenilin-2 CTF subunit) Blocking Peptide (C-term) - Product Information**

Primary Accession [P49810](#)  
Other Accession [O88777](#), [Q0MS45](#), [Q61144](#), [Q9XT96](#)

**PSEN2(Presenilin-2 CTF subunit) Blocking Peptide (C-term) - Additional Information**

**Gene ID** 5664

**Other Names**

Presenilin-2, PS-2, 3423-, AD3LP, AD5, E5-1, STM-2, Presenilin-2 NTF subunit, Presenilin-2 CTF subunit, PSEN2, AD4, PS2, PSNL2, STM2

**Target/Specificity**

The synthetic peptide sequence is selected from aa 431-445 of HUMAN PSEN2

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PSEN2(Presenilin-2 CTF subunit) Blocking Peptide (C-term) - Protein Information**

**Name** PSEN2

**Synonyms** AD4, PS2, PSNL2, STM2

**Function**

Probable catalytic subunit of the gamma-secretase complex, an endoprotease complex that catalyzes the intramembrane cleavage of integral membrane proteins such as Notch receptors and APP (amyloid- beta precursor protein). Requires the other members of the gamma- secretase complex to have a protease activity. May play a role in intracellular signaling and gene expression or in linking chromatin to the nuclear membrane. May function in the cytoplasmic partitioning of proteins. The holoprotein functions as a calcium-leak channel that allows the passive movement of calcium from endoplasmic reticulum to cytosol and is involved in calcium homeostasis (PubMed:<a href="http://www.uniprot.org/citations/16959576" target="\_blank">16959576</a>). Is a regulator of mitochondrion-endoplasmic reticulum membrane tethering and modulates calcium ions shuttling between ER and mitochondria (PubMed:<a href="http://www.uniprot.org/citations/21285369" target="\_blank">21285369</a>).

**Cellular Location**

Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein

**Tissue Location**

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.

**PSEN2(Presenilin-2 CTF subunit) Blocking Peptide (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**PSEN2(Presenilin-2 CTF subunit) Blocking Peptide (C-term) - Images****PSEN2(Presenilin-2 CTF subunit) Blocking Peptide (C-term) - Background**

Probable catalytic subunit of the gamma-secretase complex, an endoprotease complex that catalyzes the intramembrane cleavage of integral membrane proteins such as Notch receptors and APP (beta-amyloid precursor protein). Requires the other members of the gamma-secretase complex to have a protease activity. May play a role in intracellular signaling and gene expression or in linking chromatin to the nuclear membrane. May function in the cytoplasmic partitioning of proteins.

**PSEN2(Presenilin-2 CTF subunit) Blocking Peptide (C-term) - References**

Levy-Lahad E., et al. Science 269:973-977(1995).  
Rogaev E.I., et al. Nature 376:775-778(1995).  
Li J., et al. Proc. Natl. Acad. Sci. U.S.A. 92:12180-12184(1995).  
Levy-Lahad E., et al. Genomics 34:198-204(1996).  
Kalnina N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.