10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

PSEN2 Blocking Peptide (N-term)

Synthetic peptide
Catalog # BP20599a

Specification

PSEN2 Blocking Peptide (N-term) - Product Information

Primary Accession P49810

PSEN2 Blocking Peptide (N-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 52-65 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 Blocking Peptide (N-term) - Protein Information

Name PSEN2

Synonyms AD4, PS2, PSNL2, STM2

Function
Probable catalytic subunit of the gamma-secretase complex, an

PSEN2 Blocking Peptide (N-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 Blocking Peptide (N-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).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.

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:16959576). Is a regulator of mitochondrion-endoplasmic reticulum membrane tethering and modulates calcium ions shuttling between ER and mitochondria (PubMed:21285369).

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 Blocking Peptide (N-term) - Protocols

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

- Blocking Peptides