

NCSTN Blocking Peptide (N-Term)

Synthetic peptide

Catalog # BP21573a

Specification

NCSTN Blocking Peptide (N-Term) - Product Information

Primary Accession

[Q92542](#)**NCSTN Blocking Peptide (N-Term) - Additional Information**

Gene ID 23385

Other Names

Nicastrin, NCSTN, KIAA0253

Target/Specificity

The synthetic peptide sequence is selected from aa 99-113 of HUMAN NCSTN

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.

NCSTN Blocking Peptide (N-Term) - Protein Information

Name NCSTN

Synonyms KIAA0253

Function

Essential 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) (PubMed: 10993067, PubMed: 12679784, PubMed: 25043039, PubMed: 26280335, PubMed: 30598546, PubMed: 30630874). The gamma-secretase complex plays a role in Notch and Wnt signaling cascades and regulation of downstream processes via its role in processing key regulatory proteins, and by regulating cytosolic CTNNB1 levels.

Cellular Location

Membrane; Single-pass type I membrane protein. Cytoplasmic vesicle membrane; Single-pass type I membrane protein. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

Tissue Location

Detected in brain (at protein level) (PubMed:10993067). Widely expressed (PubMed:11396676)

NCSTN Blocking Peptide (N-Term) - Protocols

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

- [Blocking Peptides](#)

NCSTN Blocking Peptide (N-Term) - Images**NCSTN Blocking Peptide (N-Term) - Background**

Essential 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). It probably represents a stabilizing cofactor required for the assembly of the gamma-secretase complex.

NCSTN Blocking Peptide (N-Term) - References

Yu G.,et al.Nature 407:48-54(2000).
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.