

# Recombinant Full Length Human NCSTN Protein, C-Flag-tagged

**Cat. No.** NCSTN-1840HFL    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

Recombinant Full Length Human NCSTN Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

### Species

Human

### Source

Mammalian Cells

### Description

This gene encodes a type I transmembrane glycoprotein that is an integral component of the multimeric gamma-secretase complex. The encoded protein cleaves integral membrane proteins, including Notch receptors and beta-amyloid precursor protein, and may be a stabilizing cofactor required for gamma-secretase complex assembly. The cleavage of beta-amyloid precursor protein yields amyloid beta peptide, the main component of the neuritic plaque and the hallmark lesion in the brains of patients with Alzheimer's disease; however, the nature of the encoded protein's role in Alzheimer's disease is not known for certain. Mutations in this gene are associated with familial acne inversa. A pseudogene of this gene is present on chromosome 21. Alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined.

### Form

25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

### Molecular Mass

75.2 kDa

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**AA Sequence**

MATAGGGSGADPGSRGLLRLLSFCVLLAGLCRGNVERKIYIPLNKTAPCVRLLNAT  
 HQIGCQSSISGDT GVIHVVEKEEDLQWVLT DGNPPYMVLESKHFTDRDLMEKLGK  
 RTSRIAGLAVSLTKPSPASGFSPSVQC PNDGFGVYSNSYGPEFAHCREIQWNSLGN  
 GLAYEDFSFPIFLEDENETKVIKQCYQDHNSQNGSAPTF PLCAMQLFSHMHAVIS  
 TATCMRRSSIQSTFSINPEIVCDPLSDYNVWSMLKPINTTGTLPDDRVAAT RLD  
 SRSFFWNVAPGAESAVASFVTQLAAAEALQKAPDVTTLPNVMFVFFQGETFDYIG  
 SSRMVYDMEKG KFPVQLENVDSFVELGQVALRTSLELWMHTDPVSQKNESVRNQ  
 VEDLLATLEKSGAGVPAVILRRPNQSQ PLPPSSLQRFLRARNISGVVLADHSGAFHN  
 KYYQSIYDTAENINVSYPEWLSPEEDLNFTVDTAKALADV ATVLGRALYELAGGTNF  
 SDTVQADPQTVTRLLYGFLIKANNSWFQSILRQDLRSYLGDGPLQHYIAVSSP TNTT  
 YVVQYALANLTGTVVNLTREQCQDPSKVPSENKDLYEYSWVQGPLHSNETDRLPR  
 CVRSTARLARA LSPAFELSQWSSTEYSTWTESRWKDIRARIFLIASKELELITLVGF  
 GILIFSLIVTYCINAKADVLFA PREPGAVSY TRTRPLEQKLISEEDLAANDILDYKDDD  
 DKV

**Purity**

> 80% as determined by SDS-PAGE and Coomassie blue staining.

**Stability**

Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**Storage**

Store at -80 centigrade.

**Concentration**

>50 ug/mL as determined by microplate BCA method.

**Preparation**

Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Protein Families**

Druggable Genome, Transmembrane

**Protein Pathways**

Alzheimer's disease, Notch signaling pathway

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Full Length Full L.

## GENE INFORMATION

**Gene Name** NCSTN nicastrin [ Homo sapiens (human) ]

**Official Symbol** NCSTN

**Synonyms** ATAG1874

**Gene ID** 23385

**mRNA Refseq** NM\_015331.3

**Protein Refseq** NP\_056146.1

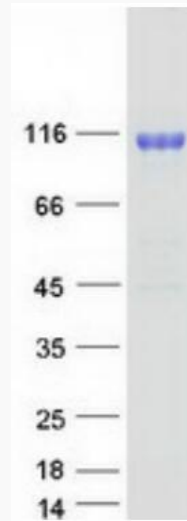
**MIM** 605254

**UniProt ID** Q92542

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Coomassie blue staining of purified NCSTN protein.

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