

Nicastrin Protein, Human (HEK293, His)

Cat. No.:	HY-P74698
Synonyms:	Nicastrin; NCSTN; KIAA0253
Species:	Human
Source:	HEK293
Accession:	Q92542-1 (N34-E669)
Gene ID:	23385
Molecular Weight:	Approximately 105-125 kDa

PROPERTIES

AA Sequence

NSVERKIYIP	LNKTAPCVRL	LNATHQIGCQ	SSISGDTGVI
HVVEKEEDLQ	WVLT DGNPP	YMV LLESKHF	TRDLMEK LKG
RTSRIAGLAV	SLTKPSPASG	FSPSVQCPND	GFGVYSNSYG
PEFAHCREIQ	WNSLGNGLAY	EDFSFPIFL	EDENETKVIK
QCYQDHNLSQ	NGSAPTFLC	AMQLFSHMHA	VISTATCMRR
SSIQSTFSIN	PEIVCDPLSD	YNVWSMLKPI	NTTGT LKPDD
RVVVAATRLD	SRSFFWNVAP	GAESAVASFV	TQLAAAEALQ
KAPDVTTLPR	NVMFVFFQGE	TFDYIGSSRM	VYDMEK GKFP
VQLENVDSFV	ELGQVALRTS	LELWMHTDPV	SQKNESVRNQ
VEDLLATLEK	SGAGVPAVIL	RRPNQSQPLP	PSSLQRFLRA
RNISGVVLAD	HSGAFHNKYY	QSIYDTAENI	NVSYPEWLS P
EEDLNFVTD T	AKALADVATV	LGRALYELAG	GTNFSDTVQA
DPQTVTRLLY	GFLIKANNSW	FQSILRQDLR	SYLGDG PLQH
YIAVSSPTNT	TYVVQYALAN	LTGTVVNLTR	EQCQDPSKVP
SENKDLYEYS	WVQGPLHSNE	TDRLP RCVRS	TARLARALSP
AFELSQWSS T	EYSTWTESRW	KDIRARIFLI	ASKELE

Appearance

Lyophilized powder

Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Nicastrin protein is an essential subunit of the gamma-secretase complex, an endoprotease assembly pivotal for catalyzing the intramembrane cleavage of integral membrane proteins, including Notch receptors and amyloid-beta precursor protein (APP). Operating in Notch and Wnt signaling cascades, the gamma-secretase complex regulates downstream processes by processing key regulatory proteins and modulating cytosolic CTNNB1 levels. As a fundamental component of the gamma-secretase complex, Nicastrin collaborates with a presenilin homodimer (PSEN1 or PSEN2), APH1 (APH1A or APH1B), and PSENEN/PEN2 to form the functional complex. This intricate molecular machinery binds to proteolytically processed C-terminal fragments C83 and C99 of APP and engages in interactions with PSEN1 and PSEN2, underscoring its significant role in molecular pathways and cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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