

Nicastrin Protein, Mouse (HEK293, His)

Cat. No.:	HY-P74696
Synonyms:	Nicastrin; NCSTN; KIAA0253
Species:	Mouse
Source:	HEK293
Accession:	P57716 (G28-E668)
Gene ID:	59287
Molecular Weight:	Approximately 95-120 kDa

PROPERTIES

AA Sequence

GLCGGNSVER	KIYIPLNKTA	PCVRLLNATH	QIGCQSSISG
DTGVIHVVEK	EEDLKWVLT D	GNPPPYMVLL	EGKLFTRDVM
EK LKGTTSR I	AGLAVTLAKP	NSTSSFSPSV	QCPNDGFGIY
SNSYGPEFAH	CKKTLWNELG	NGLAYEDFSF	PIFLLEDENE
TKV I KQCYQD	HNLGQNGSAP	SFPLCAMQLF	SHMHA V I STA
TCMRRSF IQS	TFSINPEIVC	DPLSDYNVWS	MLKPINTSVG
LEPDVRVVVA	ATRLDSRSFF	WNVAPGAESA	VASFVTQLAA
AEALHKAPDV	TTLSRNVMFV	FFQGETFDYI	GSSRMVYDME
NGKFPVRL EN	IDSFVELGQV	ALRTSLDLWM	HTDPM SQKNE
SVKNQVEDLL	ATLEKSGAGV	PEVVLRR LAQ	SQALPPSSLQ
RFLRARNISG	VVLADHSGSF	HNRYYQSIYD	TAENINVTYP
EWQSPEEDLN	FVTD TAKALA	NVATV LARAL	YELAGGTNFS
SSIQADPQTV	TRLLYGFLVR	ANNSWFQSIL	KHDLRSYLDD
RPLQHYIAVS	SPTNTTYVVQ	YALANLTGKA	TNLTREQCQD
PSKVPNESKD	LYEYSWVQGP	WNSNRTERLP	QCVRSTVRLA
RALSPAFELS	QWSSTEYSTW	AESRWKDIQA	RIFLIASKEL
E			

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, an indispensable subunit of the gamma-secretase complex, takes center stage in the intricate molecular machinery responsible for the endoproteolytic cleavage of integral membrane proteins. This includes pivotal substrates like Notch receptors and the amyloid-beta precursor protein (APP). The gamma-secretase complex, in which Nicastrin plays a crucial role, serves as a linchpin in the modulation of Notch and Wnt signaling cascades, exerting regulatory influence on downstream processes. In concert with other essential components, such as a presenilin homodimer, APO1, and PEN2, Nicastrin forms the functional gamma-secretase complex. Nicastrin's binding affinity extends to the proteolytically processed C-terminal fragments of APP, further underscoring its pivotal role in orchestrating the intricacies of this proteolytic machinery. Moreover, Nicastrin's interactions with presenilin components accentuate its integral role within the gamma-secretase complex.

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

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