

Nicastrin Protein, Mouse (HEK293, hFc)

Cat. No.:	HY-P74697
Synonyms:	Nicastrin; NCSTN; KIAA0253
Species:	Mouse
Source:	HEK293
Accession:	P57716 (G28-E668)
Gene ID:	59287
Molecular Weight:	Approximately 117 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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