

Product Data Sheet

NOTCH2NL Protein, Human (HEK293, Fc)

Cat. No.:	HY-P77107
Synonyms:	Notch homolog 2 N-terminal-like protein A; NOTCH2NLA; N2N
Species:	Human
Source:	HEK293
Accession:	Q7Z3S9 (M1-N236)
Gene ID:	388677
Molecular Weight:	Approximately 55-75 kDa.

DRODERTIES	
TROLENIES	
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. 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	NOTCH2NL, a human-specific protein, plays a pivotal role in the evolutionary expansion of the neocortex by orchestrating neural progenitor proliferation through modulation of the Notch signaling pathway. By promoting self-renewal of neural progenitors, NOTCH2NL potentially down-regulates genes associated with neuronal differentiation, thereby delaying the maturation of neuronal progenitors and ultimately fostering increased neuronal production. Its influence on the Notch signaling pathway occurs through two parallel mechanisms: firstly, via direct interaction with NOTCH2, enhancing Notch signaling in a non-cell-autonomous manner; and secondly, by autonomously inhibiting cis DLL1-NOTCH2 interactions, thereby promoting sustained neural progenitor status and inhibiting premature neuronal differentiation. These intricate interactions contribute to the unique regulatory role of NOTCH2NL in shaping the complex dynamics of human neurogenesis. Additionally, NOTCH2NL forms direct interactions with ELANE and DLL1, further highlighting its multifaceted involvement in cellular processes.

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

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