

Notch 3 Protein, Human (HEK293, His-Avi)

Cat. No.:	HY-P78010
Synonyms:	CADASIL; Notch homolog 3; Notch-3; NOTCH3
Species:	Human
Source:	HEK293
Accession:	Q9UM47 (A40-E467)
Gene ID:	4854
Molecular Weight:	53-60 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Notch 3 protein serves as a receptor for membrane-bound ligands, including Jagged1, Jagged2, and Delta1, playing a pivotal role in regulating cell-fate determination. Upon ligand activation, the released notch intracellular domain (NICD) forms a transcriptional activator complex with RBPJ/RBPSUH, initiating the activation of genes within the enhancer of split locus. This multifaceted protein influences cellular differentiation, proliferation, and apoptotic programs. Structurally, it exists as a heterodimer composed of a C-terminal fragment (N(TM)) and a N-terminal fragment (N(EC)), likely linked by disulfide bonds. Notch 3 interacts with transcriptional coactivators MAML1, MAML2, and MAML3, modulating downstream transcriptional processes. It also engages with PSMA1 and HIF1AN, contributing to diverse cellular functions and regulatory pathways.
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Caution: Product has not been fully validated for medical applications. For research use only.

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