Notch3 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P78009
Synonyms:	CADASIL; CASILneurogenic locus notch homolog protein 3; Notch (Drosophila) homolog 3; notch 3Notch homolog 3 (Drosophila); Notch homolog 3; Notch3; Notch-3
Species:	Human
Source:	HEK293
Accession:	Q9UM47 (A40-E467)
Gene ID:	4854
Molecular Weight:	75-83 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 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_2O. 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	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.

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

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