

NOTCH4 Protein, Human (sf9, His)

Cat. No.:	HY-P74683
Synonyms:	Neurogenic locus notch homolog protein 4; hNotch4; INT3
Species:	Human
Source:	Sf9 insect cells
Accession:	Q99466 (M1-F637)
Gene ID:	4855
Molecular Weight:	Approximately 66.1 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 500 mM NaCl, pH 7.0, 10% Glycerol. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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 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	NOTCH4 protein functions as a receptor for membrane-bound ligands, including Jagged1, Jagged2, and Delta1, crucial for the regulation of cell-fate determination. Upon ligand activation, the released notch intracellular domain (NICD) forms a transcriptional activator complex with RBPJ/RBPSUH, leading to the activation of genes within the enhancer of split locus. Its role extends to influencing differentiation, proliferation, and apoptotic programs, potentially contributing to the regulation of branching morphogenesis in the developing vascular system. Structurally, NOTCH4 exists as a heterodimer, consisting of a C-terminal fragment (N(TM)) and a N-terminal fragment (N(EC)), likely connected by disulfide bonds. The protein interacts with transcriptional coactivators MAML1, MAML2, and MAML3, facilitating their role in modulating downstream transcriptional processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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