

Recombinant Human NOTCH1 protein, His-tagged

Cat. No. NOTCH1-385H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NOTCH1 Protein (Ala19-Gln526), fused to His-tag at the C-terminus, was produced by HEK293 Cells expression system.
Species	Human
Source	HEK293
ProteinLength	Ala19-Gln526
Description	NOTCH1 is one of the four mammalian Notch receptors, which is involved in the Notch signaling pathway. Specifically, NOTCH1 promotes the proliferation of myogenic precursor cells, and the NICD domain of NOTCH1 can impair regeneration of skeletal muscles. NOTCH1 is a prevalent signaling pathway in T cell acute lymphoblastic leukemia (T-ALL). The NOTCH signaling pathway is a conserved signaling cascade that regulates many aspects of development and homeostasis in multiple organ systems. The proto-oncogene NOTCH1 is frequently mutated in around 1% of patients with chronic lymphocytic leukemia (CLL). NOTCH1 mutations in oral squamous cell carcinoma (OSCC) frequently occur near the ligand-binding region. These mutations change the domain structure of this protein and affect the ligand binding activity. When NOTCH1 is activated by ligand binding, NOTCH1 intracellular domain (NICD) is cleaved from the cell membrane
Predicted N Terminal	Ala19
Form	Liquid in sterile PBS, pH 7.4.

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Molecular Mass	The recombinant human NOTCH1 consists of 518 amino acids and predicts a molecular mass of 55 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 90% as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.5 mg/ml. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.
Reconstitution	NULL

GENE INFORMATION

Gene Name	NOTCH1
Official Symbol	NOTCH1
Synonyms	hN1; AOS5; TAN1; AOVD1
Gene ID	4851

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mRNA Refseq	NM_017617.5
Protein Refseq	NP_060087.3
MIM	190198
UniProt ID	P46531

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