

Active Recombinant Mouse Notch1 protein, His-tagged

Cat. No. Notch1-422M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Notch1(Met 1-Gln 526) fused with His tag at C-terminal was expressed in Insect cells.
Species	Mouse
Source	Insect Cells
ProteinLength	Met 1-Gln 526
Predicted N Terminal	Ala 19
Form	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% gly. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.
Bio-activity	1. Measured by its binding ability in a functional ELISA.2. Immobilized human DLL4 at 10 µg/mL (100 µl/well) can bind biotinylated mouse NOTCH1-his, The EC50 of biotinylated mouse NOTCH1-his is 40 ng/mL.3. Immobilized mouse DLL4-his at 10 µg/mL (100 µl/well) can bind biotinylated mouse NOTCH1-his, The EC50 of biotinylated mouse NOTCH1-his is 30 ng/mL.
Molecular Mass	The secreted recombinant mouse NOTCH1 (aa 1-526) consists of 518 amino acids and has a calculated molecular mass of 55 kDa. It migrates as an approximately 80 KDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method

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Purity	> 82 % 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 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
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.

GENE INFORMATION

Gene Name	Notch1 Notch gene homolog 1 (Drosophila) [Mus musculus]
Official Symbol	Notch1
Synonyms	NOTCH1; Notch gene homolog 1 (Drosophila); neurogenic locus notch homolog protein 1; mT14; p300; Motch A; notch 1; major type A protein; transmembrane receptor Notch1; N1; Mis6; Tan1; lin-12; 9930111A19Rik;
Gene ID	18128
mRNA Refseq	NM_008714
Protein Refseq	NP_032740

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MIM	
UniProt ID	Q01705
Chromosome Location	2 A3; 2 18.91 cM
Pathway	Activated NOTCH1 Transmits Signal to the Nucleus, organism-specific biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Dorso-ventral axis formation, organism-specific biosystem; Dorso-ventral axis formation, conserved biosystem; Gene expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem;
Function	chromatin DNA binding; chromatin binding; protein binding; receptor activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity;