

Recombinant Rat Notch1, Fc Chimera

Cat. No. Notch1-2540R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Notch1 produced in <i>Mouse NSO cells</i> was fused to Fc region of human.
Species	Rat
Source	Mammalian Cells
Description	Notch family members play a role in a variety of developmental processes by controlling cell fate decisions. The Notch signaling network is an evolutionarily conserved intercellular signaling pathway which regulates interactions between physically adjacent cells. In <i>Drosophila</i>, notch interaction with its cell-bound ligands (delta, serrate) establishes an intercellular signaling pathway that plays a key role in development. Homologues of the notch-ligands have also been identified in human, but precise interactions between these ligands and the human notch homologues remain to be determined. This protein is cleaved in the trans-Golgi network, and presented on the cell surface as a heterodimer. This protein functions as a receptor for membrane bound ligands, and may play multiple roles during development. A deficiency can be associated with bicuspid aortic valve.
Molecular Weight	Calculated mol wt ~76 kDa; mol wt ~117 kDa by SDS-PAGE (reducing).
Purity	≥90% (SDS-PAGE).
Form	Lyophilized from a 0.2 µm filtered solution in phosphate buffered saline.

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Analysis Note The biological activity is measured by its ability to bind Jagged-1.

Storage -20°C.

GENE INFORMATION

Gene Name [Notch1 Notch homolog 1, translocation-associated \(Drosophila\) \[Rattus norvegicus \]](#)

Synonyms Notch1; Notch homolog 1, translocation-associated (Drosophila); TAN1; NOTCH; neurogenic locus notch homolog protein 1; notch 1; Notch gene homolog 1; Drosophila Notch homolog 1 (controlling the the ectodermal and neural cell fate in Drosophila)

Gene ID [25496](#)

mRNA Refseq [NM_001105721](#)

Protein Refseq [NP_001099191](#)

UniProt ID [Q07008](#)

Chromosome Location 3p13

Pathway Dorso-ventral axis formation; Notch signaling pathway; Prion diseases

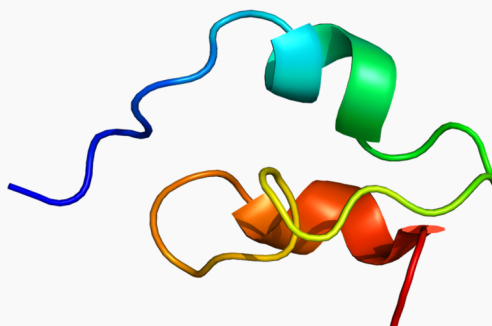
Function calcium ion binding; chromatin DNA binding; protein binding; receptor activity; sequence-specific DNA binding; transcription activator activity; transcription factor activity

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