

Recombinant Human Delta-like 4 (Drosophila)

Cat. No. DLL4-934H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human sDLL4 produced in 293 cells is a 54.0 kDa glycoprotein containing 498 amino-acid residues.
Species	Human
Source	HEK293
Description	Human sDLL4 comprises the extracellular signaling domain of DLL, a member of a structurally-related family of single-pass type I trans-membrane proteins that serve as ligands for Notch receptors. DLL4 functions to specifically activate the Notch-1 and Notch-4 receptors. The Notch signaling pathway regulates endothelial-cell differentiation, proliferation and apoptosis, and is essential for the development, maintenance and remodeling of the vascular system. Targeted deletion of the DLL4 gene in mice resulted in severe vascular defects and death before birth. Up-regulation of DLL4 expression has been implicated in the vascular development of certain tumors.
Purity	> 95%, by SDS-PAGE and HPLC analysis.
Endotoxin level	< 0.1 ng per µg of sDLL-4.
Stabilizer	None.
Formulation	Lyophilized.

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Biologically Activity

The sDLL-4, when immobilized at concentrations >1.5µg/mL will inhibit myogenesis in C2C12 cells.

Stability

The lyophilized protein is stable for at least 2 years from date of receipt at -20°C.
Reconstituted sDLL-4 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name

DLL4 delta-like 4 (Drosophila) [Homo sapiens]

Synonyms

DLL4; delta-like 4 (Drosophila); hdelta2; MGC126344; delta-like 4 protein; delta 4; delta ligand 4; notch ligand DLL4; delta-like 4 homolog; notch ligand delta-2; Drosophila Delta homolog; delta-like 4 homolog (Drosophila)

Gene ID

54567

mRNA Refseq

NM_019074

Protein Refseq

NP_061947

MIM

605185

UniProt ID

Q9NR61

Chromosome Location

15q14

Pathway

Notch signaling pathway

Function

Notch binding; calcium ion binding; protein binding

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