

sDLL-4 Human HEK293 cells

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: HEK293 cells	RBG10114005	(5 µg)
Species: Human	RBG10114025	(25 µg)
Other names: Delta-like protein 4; Drosophila Delta homolog 4	RBG10114100	(100 µg)

Description

Human sDLL-4 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. DLL-4 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 DLL-4 gene in mice resulted in severe vascular defects and death before birth. Up-regulation of DLL-4 expression has been implicated in the vascular development of certain tumors. The human DLL-4 gene consists of a 503 amino acid extracellular domain with one DSL domain, eight EGF-like repeats, a 21 a.a. transmembrane domain, and a 135 a.a. cytoplasmic domain. Recombinant Human sDLL-4 is a 54.3 kDa glycoprotein containing 498 amino acid residues.

Research topic

Apoptosis, Cardiovascular disease, Coronary artery disease

Amino Acid Sequence

SGVFQLQLQE FINERGVLAS GRPCEPGCRT FFRVCLKHFQ AVVSPGPCTF GTVSTPVLGT NSFVAVRDDSS GGGRNPLQLP
 FNFTWPGTFS LIIIEAWHAPG DDLRPEALPP DALISKIAIQ GSLAVGQNLW LDEQSTLTR LRYSYRVICS DNYYGDNCSR
 LCKKRNDHFG HYVCQPDGNL SCLPGWTGEY CQQPICLSGC HEQNGYCSKP AECLCRPGWQ GRLCNECIPH NGCRHGTCS
 PWQCTCDEGW GGLFCDQDLN YCTHHSPCKN GATCSNSGQR SYTCTCRPGY TGVDCELELS ECDSNPCRNG GSCKDQEDGY
 HLCPPGYYG LHCEHSTLSC ADSPCFNGGS CRERNQGANY ACECPPNFTG SNCEKKVDRC TSNPCANGGQ CLNRGPSRMC
 RCRPGFTGTY CELHVSDCAR NPCAHGGTCH DLENGLMCTC PAGFSGRRC E VRTSIDACAS SPCFNATCY TDLSTDFTVC
 NCPYGFVGSR CEFPVGLP

Source

HEK293 cells

Purity

95%

Biological Activity

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

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

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