

# sDLL-4, Human CellExp™, Human Recombinant

**CATALOG #:** 7134-10 10 µg  
7134-50 50 µg

**ALTERNATE NAMES:** Delta-like protein 4; Drosophila Delta homolog 4

**SOURCE:** HEK293 cells

**PURITY:** ≥ 95% by SDS-PAGE gel and HPLC analyses

**MOL. WEIGHT:** 54.3 kDa

**ENDOTOXIN LEVEL:** < 0.1 ng/µg of protein (<1EU/µg).

**FORM:** Lyophilized

**FORMULATION:** Sterile filtered through a 0.2 micron filter.  
Lyophilized from 1X PBS, pH 7.5.

**STORAGE CONDITIONS:** Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

## RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. 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.

## 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. Recombinant human sDLL4 is a 54.3 kDa glycoprotein containing 498 amino-acid residues.

## BIOLOGICAL ACTIVITY:

The sDLL-4, when immobilized at concentrations > 1.5 µg/mL will inhibit myogenesis in C<sub>2</sub>C<sub>12</sub> cells.

## AMINO ACID SEQUENCE:

SGVFQLQLQE FINERGLVAS GRPCEPGCRT FFRVCLKHFQ AVVSPGPCTF  
GTVSTPVLGT NSFVRDDSS GGRNPLQLP FNFTWPGTFS LIIEAWHAPG  
DDLPEALPP DALISKIAIQ GSLAVGQNWL LDEQTSTLTR LRSYRVICS  
DNYYGDNCSR LCKKRNDHFG HYVCQPDGNL SCLPGWTGEY CQPICLSGC  
HEQNGYCSKP AECLCRPGWQ GRLCNECIPH NGCRHGTCTST PWQCTCDEGW  
GGLFCDQDLN YCTHHSPCKN GATCSNSGQR SYTCTCRPGY TGVDCELELS  
ECDSNPCRNG GSKDQEDGY HCLCPPGYG LHCEHSTLSC ADSPCFNGGS  
CRERNQGANY ACECPPNFTG SNCEKKVDRC TSNPCANGGQ CLNRGPSRMC  
RCRPGFTGTY CELHVSDCAR NPCAHGGTCH DLENGLMCTC PAGFSGRRCE  
VRTSIDACAS SPCFNATCY TDLSTDTFVC NCPYGFVGSR CEFPVGLP

## RELATED PRODUCTS:

- sDLL-1, human recombinant (Cat. No. 7133-10, -50)
- Notch 1 Antibody (Cat. No. 3881-100)
- Notch 1 Blocking Peptide (Cat. No. 3881BP-50)

**FOR RESEARCH USE ONLY! Not to be used in humans.**