

**TECHNICAL DATA SHEET**

**Recombinant Human sDLL-4 (Carrier-free)**

Catalog Number: 21-7177

**RPx-Pro™ Recombinant Protein**  
**PRODUCT INFORMATION**

**CONTENTS**

Recombinant Human sDLL-4 (Carrier-free)

**DESCRIPTION**

Delta-like protein 4 (DLL-4) is a type I transmembrane protein that belongs to the Delta/Serrate/Lag-2 (DSL) family of Notch ligands. DLL-4 activates through the Notch-1 and Notch-4 signaling pathways required in vascular development and homeostasis. In mice targeted deletion of the DLL-4 gene results in severe vascular defects and is lethal.

**MOLECULAR MASS**

Recombinant Human sDLL-4 is the 54.3 kDa, 498 amino acid glycoprotein comprised of the extracellular signaling domain of the DLL-4 protein.

**AMINO ACID SEQUENCE**

SGVFQLQLQE FINERGVLAS GRPCEPGCRT FFRVCLKHFQ AVVSPGPCTF GTVSTPVLGT NSFVARDSS GGGRNPLQLP FNFTWPGTFS  
 LIIEAWHAPG DDLRPEALPP DALISKIAIQ GSLAVGQNW LDEQTSTLTR LRSYRVICS DNYGDNCSR LCKKRNDHFG HYVCQPDGNL SCLPGWTGEY  
 CQQPICLSGC HEQNGYCSKP AECLCRPGWQ GRLCNECIPH NGCRHGTCST PWQCTDEGW GGLFCDQDLN YCTHHS PCKN GATCSNSGQR  
 SYTCTCRPGY TGVDCELELS ECDSNPCRNG GSKDQEDGY HCLCPPGYG LHCEHSTLSC ADSPCFNGGS CRERNQGANY ACECPPNFTG  
 SNCEKKVDR CTSNPCANGGQ CLNRGPSRMC RCRPGFTGTY CELHVSDCAR NPCAHGGTCH DLENGLMCTC PAGFSGRRCE VRTSIDACAS  
 SPCFNRTCY TDLSTDTFVC NCPYGFVGSR CEFPVGLP

**SOURCE**

HEK293 cells

**APPLICATIONS**

Bioassay

**PURITY**

95 %

**STORAGE**

-20°C

**PROTEIN CONTENT**

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

**ENDOTOXIN LEVEL**

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

**AUTHENTICITY**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**CROSS REACTIVITY**

Mouse

**BIOACTIVITY**

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

**RESEARCH AREAS**

Angiogenesis & Cardiovascular, Apoptosis, Cancer, Proliferation, Stem Cells & Differentiation

**RECONSTITUTION**

See Certificate of Analysis (COA) for lot specific reconstitution information.

**REFERENCES**

Mizuno S, Yoda M, Shimoda M, Tohmonda T, Okada Y, Toyama Y, Takeda S, Nakamura M, Matsumoto M and Horiuchi K. 2015. J Biol Chem. 290 (47):28456-64.

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