

# Recombinant human DLL4 protein

Catalog Number: ATGP3954

## PRODUCT INFORMATION

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### Expression system

HEK293

### Domain

27-524aa

### UniProt No.

Q9NR61

### NCBI Accession No.

NP\_061947

### Alternative Names

Delta-like protein 4, Drosophila Delta homolog 4, Delta4, delta like canonical Notch ligand 4, AOS6, hdelta2

## PRODUCT SPECIFICATION

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### Molecular Weight

55.1kDa (504aa)

### Concentration

0.25mg/ml (determined by Absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

DLL4, also known as Delta-Like protein 4, is a membrane protein belonging to the Delta/Serrate/Lag2 (DSL) family of Notch ligands. It is predicted to encode a membrane-bound ligand, characterized by an extracellular region containing several EGF-like domains and a DSL domain required for receptor binding. DLL4 is expressed highly and selectively within the arterial endothelium and has been shown to function as a ligand for Notch 1 and

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Notch 4. The Notch signaling pathway is fundamental to proper cardiovascular development and is now recognized as an important player in tumor angiogenesis. Two key Notch ligands have been implicated in tumor angiogenesis, Delta-like 4 and Jagged1. Recombinant human DLL4, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

SGVFQLQLQE FINERGVLAS GRPCEPGCRT FFRVCLKHFQ AVVSPGPCTF GTVSTPVLGT NSFVRDDSS GGGRNPLQLP  
FNFTWPGTFS LIIEAWHAPG DDLRPEALPP DALISKIAIQ GSLAVGQNLW LDEQTSTLTR LRYSYRVICS DNYYGDNCSR  
LCKKRNDHFG HYVCQPDGNL SCLPGWTGEY CQPICLSGC HEQNGYCSKP AECLCRPGWQ GRCLNECIPH NGCRHGTCST  
PWQCTCDEGW GGLFCDQDLN YCTHHSPCKN GATCSNSGQR SYTCTCRPGY TGVDCELELS ECDSNPCRNG  
GSCKDQEDGY HCLCPPGYYG LHCEHSTLSC ADSPCFNGGS CRERNQGANY ACECPPNFTG SNCEKKVDRC  
TSNPCANGGQ CLNRGPSRMC RCRPGFTGTY CELHVSDCAR NPCAHGGTCH DLENGLMCTC PAGFSGRRCE VRTSIDACAS  
SPCFNRATCY TDLSTDTFVC NCPYGFVGSR CEFPVGLP<HH HHHH>

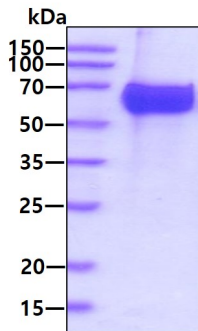
## General References

J R Shutter., et al, (2000) Genes Dev. 14:1313-1318.

J Dufraine., et al, (2008) Oncogene. 27:5132-5137.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain