

## Recombinant Mouse DLL4 protein, His-tagged

**Cat. No.** DLL4-70M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant mouse DLL4, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | DLL4, also known as delta-like protein 4, is involved in the Notch signaling pathway as Notch ligand. Therefore it negatively regulates endothelial cell proliferation and migration and angiogenic sprouting. Essential for retinal progenitor proliferation is required for suppressing rod fates in late retinal progenitors as well as for proper generation of other retinal cell types. During spinal cord neurogenesis, it inhibits V2a interneuron fate. |
| <b>Form</b>             | Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 55.8kDa (512aa)50-70kDa (SDS-PAGE under reducing conditions)                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | GSGIFQLRLQ EFVNQRGMLA NGQSCEPGCR TFFRICLKHF QATFSEGPCT<br>FGNVSTPVLG TNSFVVRDKN SGSGRNPLQL PFNFTWPGTFSLNIQAWHTP<br>GDDLRPETSP GNSLISQIII QGSLAVGKIW RTDEQNDTLT RLSYSYRVIC<br>SDNYYGESCS RLCKKRDDHF GHYECQPDGSLSCLPGWTGK YCDQPICLSG<br>CHEQNGYCSK PDECICRPGW QGRLCNECIP HNGCRHGTCS IPWQCACDEG<br>WGGLFCDQDL NYCTHHSPCKNGSTCSNSGP KGYTCTCLPG YTGEHCELGL<br>SKCASNPCRN GGSCKDQENS YHCLCPPGYY GQHCEHSTLT CADSPCFNGG                                                  |

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SCRERNQGSSYACECPPNFT GSNCEKKVDR CTSNPCANGG QCQNRGPSRT  
 CRCRPGFTGT HCELHISDCA RSPCAHGGTC HDLENGPVCT  
 CPAGFSGRRCEVRITHDACA SGPCFNGATC YTGLSPNNFV CNCPYGFVGS  
 RCEFPVGLPP SFPWVAHHHH HH

**Endotoxin** < 1.0 EU per 1 microgram of protein (determined by LAL method)

**Purity** >95% by SDS – PAGE

**Storage** Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 1mg/ml (determined by Absorbance at 280nm)

## GENE INFORMATION

**Gene Name** [DII4 delta-like 4 \(Drosophila\)](#) [ [Mus musculus](#) ]

**Official Symbol** [DII4](#)

**Synonyms** DLL4; delta-like 4 (Drosophila); delta-like protein 4; drosophila Delta homolog 4; Delta4;

**Gene ID** [54485](#)

**mRNA Refseq** [NM\\_019454](#)

**Protein Refseq** [NP\\_062327](#)

**MIM**

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| UniProt ID      |                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b>  | Delta-Notch Signaling Pathway, organism-specific biosystem; Notch Signaling Pathway, organism-specific biosystem; Notch signaling pathway, organism-specific biosystem; Notch signaling pathway, conserved biosystem; Signal Transduction, organism-specific biosystem; Signaling by NOTCH, organism-specific biosystem; Signaling by NOTCH2, organism-specific biosystem; |
| <b>Function</b> | Notch binding; calcium ion binding; protein binding;                                                                                                                                                                                                                                                                                                                       |

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