

Delta-like protein 4/DLL4 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P75294
Synonyms:	Delta-like protein 4; Delta4; DLL4
Species:	Human
Source:	HEK293
Accession:	NP_061947.1 (S27-P524)
Gene ID:	54567
Molecular Weight:	84-110 kDa

PROPERTIES

AA Sequence

SGV FQLQLQE	FIN ERGVLAS	GRPCEPGCRT	FFRVCLKHFQ
AVVSPGPCTF	GTVSTPVLGT	NSFAVRDDSS	GGGRNPLQLP
FNFTWPGTFS	LIIEAWHAPG	DDL RPEALPP	DALISKIAIQ
GSLAVGQNL	LDEQTSTLTR	LRYSYRVICS	DNYYGDNCSR
LCKKRNDHFG	HYVCQPDGNL	SCLPGWTGEY	CQQPICLSGC
HEQNGYCSKP	AELCRPGWQ	GRLCNECIPH	NGCRHGT CST
PWQCTCDEGW	GGLFCDQDLN	YCTHHSPCKN	GATCSNSGQR
SYTCTCRPGY	TGVDCELELS	ECDSNPCRNG	GSCKDQEDGY
HCLCPPGYYG	LHCEHSTLSC	ADSPCFNGGS	CRERNQGANY
ACECPNFTG	SNCEKKVDR	TSNPCANGGQ	CLNRGPSRMC
RCRPGFTGT	CELHVSDCAR	NPCA HGGTCH	DLENGLMCTC
PAGFSGRRC	VRTSIDACAS	SPCFNRATCY	TDLSTDTFVC
NCPYGFVGS	CEFPVGLP		

Biological Activity

1. Measured by the ability of the immobilized protein to enhance BMP2-induced alkaline phosphatase activity in C3H10T1/2 mouse embryonic fibroblast cells and the ED₅₀ is typically 2.2 µg/mL in the presence of 500 ng/mL recombinant human BMP2.
2. Measured by the ability of the immobilized protein to enhance BMP-2 induced alkaline phosphatase activity in C3H10T1/2 mouse embryonic fibroblast cells. The ED₅₀ for this effect is approximately 0.05348 µg/ml in the presence of 100 ng/mL Mouse BMP-2, corresponding to a specific activity is 1.870×10⁴ units/mg.

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4 (Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.) or 20 mM PB, 150 mM NaCl, pH 7.4.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O.

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is

recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Delta-like protein 4 (DLL4) is a homolog of the Drosophila delta gene family, encoding Notch ligands that possess a DSL domain, EGF repeats, and a transmembrane domain. DLL4 displays broad expression in various tissues, including placenta (RPKM 11.5), fat (RPKM 11.2), and 22 other tissues.

Caution: Product has not been fully validated for medical applications. For research use only.

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