

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:	100-110 kDa

PROPERTIES

AA Sequence

S G V F Q L Q L Q E	F I N E R G V L A S	G R P C E P G C R T	F F R V C L K H F Q
A V V S P G P C T F	G T V S T P V L G T	N S F A V R D D S S	G G G R N P L Q L P
F N F T W P G T F S	L I I E A W H A P G	D D L R P E A L P P	D A L I S K I A I Q
G S L A V G Q N W L	L D E Q T S T L T R	L R Y S Y R V I C S	D N Y Y G D N C S R
L C K K R N D H F G	H Y V C Q P D G N L	S C L P G W T G E Y	C Q Q P I C L S G C
H E Q N G Y C S K P	A E C L C R P G W Q	G R L C N E C I P H	N G C R H G T C S T
P W Q C T C D E G W	G G L F C D Q D L N	Y C T H H S P C K N	G A T C S N S G Q R
S Y T C T C R P G Y	T G V D C E L E L S	E C D S N P C R N G	G S C K D Q E D G Y
H C L C P P G Y Y G	L H C E H S T L S C	A D S P C F N G G S	C R E R N Q G A N Y
A C E C P P N F T G	S N C E K K V D R C	T S N P C A N G G Q	C L N R G P S R M C
R C R P G F T G T Y	C E L H V S D C A R	N P C A H G G T C H	D L E N G L M C T C
P A G F S G R R C E	V R T S I D A C A S	S P C F N R A T C Y	T D L S T D T F V C
N C P Y G F V G S R	C E F P V G L P		

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.
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Shipping	Room temperature in continental US; may vary elsewhere.
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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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA