

Recombinant Human DLK1 protein, His-tagged

Cat. No. DLK1-187H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human DLK1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
ProteinLength	24-303 aa
Description	DLK1, also known as protein delta homolog 1, belongs to the Notch/Delta/Serrate family of epidermal growth factor (EGF)-like repeat-containing proteins that act as ligands in the Notch signaling pathway. It has six well conserved epidermal-growth-factor motifs and contains up to ten O-glycosylation and N-glycosylation sites, six of which are differentially glycosylated.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	30.7kDa (288aa)28-40kDa (SDS-PAGE under reducing conditions)
AA Sequence	AECFPACNPQ NGFCEDDNVC RCQPGWQGGL CDQCVTSPGC LHGLCGEPGQ CICTDGWDGE LCDRDVRACS SAPCANNGTC VSLDDGLYECSCAPGYSGKD CQKKDGPCVI NGSPCQHGGT CVDDEGRASH ASCLCPPGFS GNFCEIVANS CTPNPCENDG VCTDIGGDFR CRCPAGFIDKTCSRPTNCA SSPCQNGGTC LQHTQVSYEC LCKPEFTGLT CVKKRALSPQ QVTRLPSGYG LAYRLTPGVH ELPVQQPEHR ILKVSMKELNKKTPLLTEGQ LEHHHHHH

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

GENE INFORMATION

Gene Name	DLK1 delta-like 1 homolog (Drosophila) [Homo sapiens]
Official Symbol	DLK1
Synonyms	DLK1; delta-like 1 homolog (Drosophila); delta like homolog (Drosophila); protein delta homolog 1; Delta1; FA1; pG2; Pref 1; ZOG; DLK-1; secredeltin; fetal antigen 1; preadipocyte factor 1; DLK; PREF1; Pref-1;
Gene ID	8788
mRNA Refseq	NM_003836
Protein Refseq	NP_003827
MIM	176290
UniProt ID	P80370
Chromosome Location	14q32

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Pathway

Activated NOTCH1 Transmits Signal to the Nucleus, organism-specific biosystem; Adipogenesis, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Notch signaling pathway, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by NOTCH, organism-specific biosystem; Signaling by NOTCH1, organism-specific biosystem;

Function

molecular_function;

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