

Active Recombinant Human NLK, GST-tagged

Cat. No. NLK-1066H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human NLK was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full Length
Description	NLK (also known as nemo-like kinase) is a member of the serine/threonine protein kinase that is encoded by the NLK gene. NLK plays a role in cell fate determination and is required for the differentiation of bone marrow stromal cells. NLK also suppresses a wide range of transcription factors such as CREB by phosphorylation of the co-activator CREBBP. NLK expression increases the number of apoptotic cells but does not induce obvious cell cycle arrest. NLK suppresses Notch signalling by interfering with formation of the Notch active transcriptional complex.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	2.4 nmol/min/mg
Molecular Mass	~84 kDa
Purity	>85%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Western Blot
Stability	1 yr at -70oC from date of shipment.
Storage	Store product at –70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 ug/ul

GENE INFORMATION

Gene Name	NLK nemo-like kinase [Homo sapiens]
Official Symbol	NLK
Synonyms	NLK; nemo-like kinase; serine/threonine-protein kinase NLK; NP_057315.3; EC 2.7.11.24
Gene ID	51701
mRNA Refseq	NM_016231
Protein Refseq	NP_057315
MIM	609476
UniProt ID	Q9UBE8
Chromosome Location	17q11.2

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Pathway

Adherens junction; C-MYB transcription factor network; IL-6 Signaling Pathway; MAPK signaling pathway

Function

ATP binding; MAP kinase activity; SH2 domain binding; magnesium ion binding

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