

Datasheet for ABIN7554753 Nemo-Like Kinase Protein (NLK) (AA 1-527) (His tag)



Overview

Quantity:	1 mg
Target:	Nemo-Like Kinase (NLK)
Protein Characteristics:	AA 1-527
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Nemo-Like Kinase protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant NLK Protein expressed in mammalian cells.
Sequence:	MSLCGARANA KMMAAYNGGT SAAAAGHHHH HHHHLPHLPP PHLHHHHHPQ HHLHPGSAAA
	VHPVQQHTSS AAAAAAAAAA AAAMLNPGQQ QPYFPSPAPG QAPGPAAAAP AQVQAAAAAT
	VKAHHHQHSH HPQQQLDIEP DRPIGYGAFG VVWSVTDPRD GKRVALKKMP NVFQNLVSCK
	RVFRELKMLC FFKHDNVLSA LDILQPPHID YFEEIYVVTE LMQSDLHKII VSPQPLSSDH
	VKVFLYQILR GLKYLHSAGI LHRDIKPGNL LVNSNCVLKI CDFGLARVEE LDESRHMTQE
	VVTQYYRAPE ILMGSRHYSN AIDIWSVGCI FAELLGRRIL FQAQSPIQQL DLITDLLGTP
	SLEAMRTACE GAKAHILRGP HKQPSLPVLY TLSSQATHEA VHLLCRMLVF DPSKRISAKD
	ALAHPYLDEG RLRYHTCMCK CCFSTSTGRV YTSDFEPVTN PKFDDTFEKN LSSVRQVKEI
	IHQFILEQQK GNRVPLCINP QSAAFKSFIS STVAQPSEMP PSPLVWE Sequence without tag. The
	proposed Purification-Tag is based on experiences with the expression system, a different
	complexity of the protein could make another tag necessary. In case you have a special
	request, please contact us.

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Product Details

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different
	isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:
	• Made to order protein - from design to production - by highly experienced protein experts.
	Protein expressed in mammalian cells and purified in one-step affinity chromatography
	 The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
	State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made-to-order protein and will be made for the first time for your order. Our
	experts in the lab try to ensure that you receive soluble protein.
	If you are not interested in a full length protein, please contact us for individual protein
	fragments.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	Nemo-Like Kinase (NLK)
Alternative Name:	NLK (NLK Products)
Background:	Serine/threonine-protein kinase NLK (EC 2.7.11.24) (Nemo-like kinase) (Protein
	LAK1),FUNCTION: Serine/threonine-protein kinase that regulates a number of transcription
	factors with key roles in cell fate determination (PubMed:14960582, PubMed:12482967,
	PubMed:15004007, PubMed:15764709, PubMed:20061393, PubMed:20874444,
	PubMed:21454679). Positive effector of the non-canonical Wnt signaling pathway, acting
	downstream of WNT5A, MAP3K7/TAK1 and HIPK2 (PubMed:15004007, PubMed:15764709).
	Negative regulator of the canonical Wnt/beta-catenin signaling pathway (PubMed:12482967).
	Binds to and phosphorylates TCF7L2/TCF4 and LEF1, promoting the dissociation of the
	TCF7L2/LEF1/beta-catenin complex from DNA, as well as the ubiquitination and subsequent
	proteolysis of LEF1 (PubMed:21454679). Together these effects inhibit the transcriptional
	activation of canonical Wnt/beta-catenin target genes (PubMed:12482967, PubMed:21454679)

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	Negative regulator of the Notch signaling pathway (PubMed:20118921). Binds to and
	phosphorylates NOTCH1, thereby preventing the formation of a transcriptionally active ternary
	complex of NOTCH1, RBPJ/RBPSUH and MAML1 (PubMed:20118921). Negative regulator of
	the MYB family of transcription factors (PubMed:15082531). Phosphorylation of MYB leads to
	its subsequent proteolysis while phosphorylation of MYBL1 and MYBL2 inhibits their interaction
	with the coactivator CREBBP (PubMed:15082531). Other transcription factors may also be
	inhibited by direct phosphorylation of CREBBP itself (PubMed:15082531). Acts downstream of
	IL6 and MAP3K7/TAK1 to phosphorylate STAT3, which is in turn required for activation of NLK
	by MAP3K7/TAK1 (PubMed:15004007, PubMed:15764709). Upon IL1B stimulus, cooperates
	with ATF5 to activate the transactivation activity of C/EBP subfamily members
	(PubMed:25512613). Phosphorylates ATF5 but also stabilizes ATF5 protein levels in a kinase-
	independent manner (PubMed:25512613). Acts as an inhibitor of the mTORC1 complex in
	response to osmotic stress by mediating phosphorylation of RPTOR, thereby preventing
	recruitment of the mTORC1 complex to lysosomes (PubMed:26588989).
	{ECO:0000269 PubMed:12482967, ECO:0000269 PubMed:14960582,
	ECO:0000269 PubMed:15004007, ECO:0000269 PubMed:15082531,
	ECO:0000269 PubMed:15764709, ECO:0000269 PubMed:20061393,
	ECO:0000269 PubMed:20118921, ECO:0000269 PubMed:20874444,
	ECO:0000269 PubMed:21454679, ECO:0000269 PubMed:25512613,
	ECO:0000269 PubMed:26588989}.
Molecular Weight:	58.3 kDa
UniProt:	Q9UBE8
Pathways:	Ubiquitin Proteasome Pathway
Application Details	
Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for
	functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.

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Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months