

Datasheet for ABIN3131814 Nemo-Like Kinase Protein (NLK) (AA 1-527) (Strep Tag)



Overview

Quantity:	250 µg
Target:	Nemo-Like Kinase (NLK)
Protein Characteristics:	AA 1-527
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Nemo-Like Kinase protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSLCGTRANA 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 Strep-Tag is based on experience s with the expression
	system, a different complexity of the protein could make another tag necessary. In case you

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	have a special request, please contact us.
Characteristics:	Key Benefits:
	 Made in Germany - from design to production - by highly experienced protein experts. Protein expressed with ALiCE® and purified in one-step affinity chromatography These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed). 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.
	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.
	Expression System:
	 ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
	 Concentration: The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured against its specific reference buffer. We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

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Target Details	
Target:	Nemo-Like Kinase (NLK)
Alternative Name:	NIk (NLK Products)
Background:	Serine/threonine-protein kinase NLK (EC 2.7.11.24) (Nemo-like kinase),FUNCTION:
	Serine/threonine-protein kinase that regulates a number of transcription factors with key roles
	in cell fate determination (PubMed:10391247, PubMed:11745377, PubMed:12482967,
	PubMed:12556497, PubMed:14720327, PubMed:15004007, PubMed:17785444,
	PubMed:18765672, PubMed:20874444, PubMed:21118996, PubMed:9448268). Positive
	effector of the non-canonical Wnt signaling pathway, acting downstream of WNT5A,
	MAP3K7/TAK1 and HIPK2 (PubMed:15004007). Negative regulator of the canonical Wnt/beta-
	catenin signaling pathway (PubMed:20194509). 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:12556497). Together
	these effects inhibit the transcriptional activation of canonical Wnt/beta-catenin target genes
	(PubMed:12556497). 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:16055500). Phosphorylation of
	MYB leads to its subsequent proteolysis while phosphorylation of MYBL1 and MYBL2 inhibits
	their interaction with the coactivator CREBBP (PubMed:15082531, PubMed:15308626,
	PubMed:16055500). Other transcription factors may also be inhibited by direct phosphorylation
	of CREBBP itself (PubMed:15082531, PubMed:15308626, PubMed:16055500). Acts
	downstream of IL6 and MAP3K7/TAK1 to phosphorylate STAT3, which is in turn required for
	activation of NLK by MAP3K7/TAK1 (PubMed:15004007). Upon IL1B stimulus, cooperates with
	ATF5 to activate the transactivation activity of C/EBP subfamily members (By similarity).
	Phosphorylates ATF5 but also stabilizes ATF5 protein levels in a kinase-independent manner
	(By similarity). 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 (By similarity). {ECO:0000250 UniProtKB:Q9UBE8,
	ECO:0000269 PubMed:10391247, ECO:0000269 PubMed:11745377,
	ECO:0000269 PubMed:12482967, ECO:0000269 PubMed:12556497,
	ECO:0000269 PubMed:14720327, ECO:0000269 PubMed:15004007,
	ECO:0000269 PubMed:15082531, ECO:0000269 PubMed:15308626,
	ECO:0000269 PubMed:16055500, ECO:0000269 PubMed:17785444,
	ECO:0000269 PubMed:18765672, ECO:0000269 PubMed:20118921,
	EC0:0000269 PubMed:20194509, EC0:0000269 PubMed:20874444,

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Target Details

	ECO:0000269 PubMed:21118996, ECO:0000269 PubMed:9448268}.
Molecular Weight:	58.3 kDa
UniProt:	054949
Pathways:	Ubiquitin Proteasome Pathway
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
	even the most difficult-to-express proteins, including those that require post-translational
	modifications.
	During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without the constraints of a living system - all that's
	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
	Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

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