

Datasheet for ABIN3137567 **NOS1 Protein (AA 1-1429) (Strep Tag)**



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Quantity:	250 μg
Target:	NOS1
Protein Characteristics:	AA 1-1429
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NOS1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details			
Brand:	AliCE®		
Sequence:	MEEHTFGVQQ IQPNVISVRL FKRKVGGLGF LVKERVSKPP VIISDLIRGG AAEQSGLIQA		
	GDIILAVNDR PLVDLSYDSA LEVLRGIASE THVVLILRGP EGFTTHLETT FTGDGTPKTI		
	RVTQPLGTPT KAVDLSRQPS ASKDQPLAVD RVPGPSNGPQ HAQGRGQGAG SVSQANGVAI		
	DPTMKNTKAN LQDSGEQDEL LKEIEPVLSI LTGGGKAVNR GGPAKAEMKD TGIQVDRDLD		
	GKLHKAPPLG GENDRVFNDL WGKGNVPVVL NNPYSENEQS PASGKQSPTK NGSPSRCPRF		
	LKVKNWETDV VLTDTLHLKS TLETGCTEQI CMGSIMLPSH HIRKSEDVRT KDQLFPLAKE		
	FLDQYYSSIK RFGSKAHMDR LEEVNKEIES TSTYQLKDTE LIYGAKHAWR NASRCVGRIQ		
	WSKLQVFDAR DCTTAHGMFN YICNHVKYAT NKGNLRSAIT IFPQRTDGKH DFRVWNSQLI		
	RYAGYKQPDG STLGDPANVE FTEICIQQGW KPPRGRFDVL PLLLQANGND PELFQIPPEL		
	VLEVPIRHPK FDWFKDLGLK WYGLPAVSNM LLEIGGLEFS ACPFSGWYMG TEIGVRDYCD		
	NSRYNILEEV AKKMDLDMRK TSSLWKDQAL VEINIAVLYS FQSDKVTIVD HHSATESFIK		

HMENEYRCRG GCPADWWWIV PPMSGSITPV FHQEMLNYRL TPSFEYQPDP WNTHVWKGTN GTPTKRRAIG FKKLAEAVKF SAKLMGQAMA KRVKATILYA TETGKSQAYA KTLCEIFKHA FDAKAMSMEE YDIVHLEHEA LVLVVTSTFG NGDPPENGEK FGCALMEMRH PNSVQEERKS YKVRFNSVSS YSDSRKSSGD GPDLRDNFES TGPLANVRFS VFGLGSRAYP HFCAFGHAVD TLLEELGGER ILKMREGDEL CGQEEAFRTW AKKVFKAACD VFCVGDDVNI EKANNSLISN DRSWKRNKFR LTYVAEAPEL TQGLSNVHKK RVSAARLLSR QNLQSPKSSR STIFVRLHTN GNQELQYQPG DHLGVFPGNH EDLVNALIER LEDAPPANHV VKVEMLEERN TALGVISNWK DESRLPPCTI FQAFKYYLDI TTPPTPLQLQ QFASLATNEK EKQRLLVLSK GLQEYEEWKW GKNPTMVEVL EEFPSIQMPA TLLLTQLSLL QPRYYSISSS PDMYPDEVHL TVAIVSYHTR DGEGPVHHGV CSSWLNRIQA DDVVPCFVRG APSFHLPRNP QVPCILVGPG TGIAPFRSFW QQRQFDIQHK GMNPCPMVLV FGCRQSKIDH IYREETLQAK NKGVFRELYT AYSREPDRPK KYVQDVLQEQ LAESVYRALK EQGGHIYVCG DVTMAADVLK AIQRIMTQQG KLSEEDAGVF ISRLRDDNRY HEDIFGVTLR TYEVTNRLRS ESIAFIEESK KDTDEVFSS

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 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 posttranslational 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

Target Details

Target:	NOS1		
Alternative Name:	Nos1 (NOS1 Products)		
Background:	Nitric oxide synthase 1 (EC 1.14.13.39) (Constitutive NOS) (NC-NOS) (NOS type I) (Neuronal		
	NOS) (N-NOS) (nNOS) (Nitric oxide synthase, brain) (bNOS) (Peptidyl-cysteine S-nitrosylase		
	NOS1),FUNCTION: Produces nitric oxide (NO) which is a messenger molecule with diverse		
	functions throughout the body. In the brain and peripheral nervous system, NO displays many		
	properties of a neurotransmitter. Probably has nitrosylase activity and mediates cysteine S-		
	nitrosylation of cytoplasmic target proteins such SRR. Isoform NNOS Mu may be an effector		
	enzyme for the dystrophin complex. {ECO:0000269 PubMed:17293453}.		
Molecular Weight:	160.5 kDa		
UniProt:	Q9Z0J4		
Pathways:	Negative Regulation of Hormone Secretion, Myometrial Relaxation and Contraction		
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		

Application Details

Handling Advice:

Storage Comment:

Storage:

Expiry Date:

Application Detail		
	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.	

Avoid repeated freeze-thaw cycles.

-80 °C

Store at -80°C.

12 months