

Datasheet for ABIN3094120 NOS1 Protein (AA 1-1434) (Strep Tag)

Go to Product page

Overview

Quantity:	250 μg	
Target:	NOS1	
Protein Characteristics:	AA 1-1434	
Origin:	Human	
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:	MEDHMFGVQQ IQPNVISVRL FKRKVGGLGF LVKERVSKPP VIISDLIRGG AAEQSGLIQA
	GDIILAVNGR PLVDLSYDSA LEVLRGIASE THVVLILRGP EGFTTHLETT FTGDGTPKTI
	RVTQPLGPPT KAVDLSHQPP AGKEQPLAVD GASGPGNGPQ HAYDDGQEAG SLPHANGLAP
	RPPGQDPAKK ATRVSLQGRG ENNELLKEIE PVLSLLTSGS RGVKGGAPAK AEMKDMGIQV
	DRDLDGKSHK PLPLGVENDR VFNDLWGKGN VPVVLNNPYS EKEQPPTSGK QSPTKNGSPS
	KCPRFLKVKN WETEVVLTDT LHLKSTLETG CTEYICMGSI MHPSQHARRP EDVRTKGQLF
	PLAKEFIDQY YSSIKRFGSK AHMERLEEVN KEIDTTSTYQ LKDTELIYGA KHAWRNASRC
	VGRIQWSKLQ VFDARDCTTA HGMFNYICNH VKYATNKGNL RSAITIFPQR TDGKHDFRVW
	NSQLIRYAGY KQPDGSTLGD PANVQFTEIC IQQGWKPPRG RFDVLPLLLQ ANGNDPELFQ
	IPPELVLEVP IRHPKFEWFK DLGLKWYGLP AVSNMLLEIG GLEFSACPFS GWYMGTEIGV
	RDYCDNSRYN ILEEVAKKMN LDMRKTSSLW KDQALVEINI AVLYSFQSDK VTIVDHHSAT

ESFIKHMENE YRCRGGCPAD WWWIVPPMSG SITPVFHQEM LNYRLTPSFE YQPDPWNTHV WKGTNGTPTK RRAIGFKKLA EAVKFSAKLM GQAMAKRVKA TILYATETGK SQAYAKTLCE IFKHAFDAKV MSMEEYDIVH LEHETLVLVV TSTFGNGDPP ENGEKFGCAL MEMRHPNSVQ EERKSYKVRF NSVSSYSDSQ KSSGDGPDLR DNFESAGPLA NVRFSVFGLG SRAYPHFCAF GHAVDTLLEE LGGERILKMR EGDELCGQEE AFRTWAKKVF KAACDVFCVG DDVNIEKANN SLISNDRSWK RNKFRLTFVA EAPELTQGLS NVHKKRVSAA RLLSRQNLQS PKSSRSTIFV RLHTNGSQEL QYQPGDHLGV FPGNHEDLVN ALIERLEDAP PVNQMVKVEL LEERNTALGV ISNWTDELRL PPCTIFQAFK YYLDITTPPT PLQLQQFASL ATSEKEKQRL LVLSKGLQEY EEWKWGKNPT IVEVLEEFPS IQMPATLLLT QLSLLQPRYY SISSSPDMYP DEVHLTVAIV SYRTRDGEGP IHHGVCSSWL NRIQADELVP CFVRGAPSFH LPRNPQVPCI LVGPGTGIAP FRSFWQQRQF DIQHKGMNPC PMVLVFGCRQ SKIDHIYREE TLQAKNKGVF RELYTAYSRE PDKPKKYVQD ILQEQLAESV YRALKEQGGH IYVCGDVTMA ADVLKAIQRI MTQQGKLSAE DAGVFISRMR DDNRYHEDIF GVTLRTYEVT NRLRSESIAF IEESKKDTDE VFSS

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. {ECO:0000269 PubMed:35772285}.
Molecular Weight:	161.0 kDa
UniProt:	P29475
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

_				
\cap	m	m	Δ	nt:

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