Datasheet for ABIN3137567

NOS1 Protein (AA 1-1429) (His tag)

1 Image

Go to Product page

Overview

Quantity:	1 mg
Target:	NOS1
Protein Characteristics:	AA 1-1429
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NOS1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

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 GCPADWVWIV 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. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Nos1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	NOS1
Alternative Name:	Nos1 (NOS1 Products)
Background:	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:	161.4 kDa Including tag.
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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

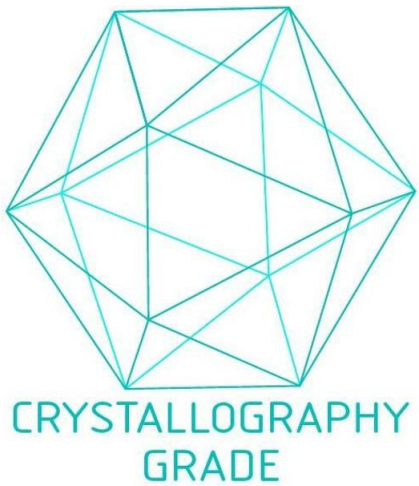

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process