

Datasheet for ABIN7565257
NOS1 Protein (AA 1-1429) (His tag)



[Go to Product page](#)

Overview

| | |
|-------------------------------|---|
| Quantity: | 1 mg |
| Target: | NOS1 |
| Protein Characteristics: | AA 1-1429 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This NOS1 protein is labelled with His tag. |

Product Details

| | |
|-----------|---|
| Purpose: | Custom-made recombinant Nos1 Protein expressed in mammalian cells. |
| Sequence: | MEEHTFGVQQ IQPNVISVRL FKRKVGGLGF LVKERVSKPP VIISDLIRGG AAEQSGLIQA GDIILAVNDR PLVDLSYDSA LEVLRGIASE THVVLILRGP EGFTTHLETT FTGDGTPKTI RVTQPLGTPT KAVDLRQPS ASKDQPLAVD RVPGPSNGPQ HAQGRGQGAG SVSQANGVAI DPTMKNTKAN LQDSGEQDEL LKEIEPVLSI LTGGGKAVNR GGPAKAEMKD TGIQVDRDL GKLNKAPPLG GENDRVFNDL WGKGNVPVVL NNPYSENEQS PASGKQSPTK NGSPSRCPRF LKVKNWETDV VLTDTLHLKS TLETGCTEQI CMGSIMLP SHIRKSEDEVRT KDQLFPLAKE FLDQYYSSIK RFGSKAHMDR LEEVNKEIES TSTYQLKDTE LIYGAKHAWR NASRCVGRIQ WSKLQVFDAR DCTTAHGMFN YICNHVKYAT NKGNLRSALT IFPQRTDGKH DFRVWNSQLI RYAGYKQPDG STLGD PANVE FTEICIQGW KPPRGRFDVL PLLLQANGND PELFQIPPEL VLEVPIRHPK FDWFKDLGLK WYGLPAVSNM LLEIGGLEFS ACPFSGWYMG TEIGVRDYCD NSRYNILEEV AKKMDLDMRK TSSLWKDQAL VEINIAVLYS FQSDKVTIVD HHSATESFIK HMENEYRCRG GCPADWVWIV PPMMSG SITPV FHQEMLNRYL TPSFEYQDPD WNTHVWVKGTN |

GTPTKRRRAIG FKKLAEAVKF SAKLMGQAMA KRVKATILYA TETGKSQAYA KTLCEIFKHA
FDAQAMSMEE YDIVHLEHEA LVLVVTSTFG NGDPPENGEK FGCALMEMRH PNSVQEERKS
YKVRFNSVSS YSDSRKSSGD GPDLRDNFES TGPLANVRFS VFGLGSRAYP HFCAFGHAVD
TLLEELGGER ILKMREGDEL CGQEEAFRTW AKKVFKAACD VFCVGDDVNI EKANNLISN
DRSWKRNFKR LTYVAEAPEL TQGLSNVHKK RVSAARLLSR QNLQSPKSSR STIFVRLHTN
GNQELQYQPG DHLGVFPGNH EDLVNALIER LEDAPPANHV VKVEMLEERN TALGVISNWK
DESRLPPCTI FQAFKYYLDI TTPPTPLQLQ QFASLATNEK EKQRLLVLSK GLQEYEEWKW
GKNPTMVEVL EEFPSIQMPA TLLLTQLSLL QPRYYSSSS PDMYPDEVHL TVAIVSYHTR
DGEGPVHHGV CSSWLNRIQA DDVVPCFVRG APSFHLPRNP QVPCILVGP TGIAPFRSFW
QQRQFDIQHK GMNPMVVLV FGCRQSKIDH IYREETLQAK NKGVFRELYT AYSREPDRPK
KYVQDVLQEQ LAESVYRALK EQGGHIYVCG DVTMAADV LK AIQRIMTQQG KLSEEDAGVF
ISRLRDDNRY HEDIFGVTLR TYEVTNRLRS ESIAFIEESK KDTDEVFSS **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.

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: | 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: | 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. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |