

Datasheet for ABIN7554734
NOS1 Protein (AA 1-1434) (His tag)



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Overview

Quantity:	1 mg
Target:	NOS1
Protein Characteristics:	AA 1-1434
Origin:	Human
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:	MEDHMFVQVQ IQPNVISVRL FKRKVGGLGF LVKERVSKPP VIISDLIRGG AAEQSGLIQA GDIILAVNGR PLVDLSYDSA LEVLRGIASE THVVLILRGP EGFTTHLETT FTGDGTPKTI RVTQPLGPPT KAVDLSHQPP AGKEQPLAVD GASGPGNGPQ HAYDDGQEAG SLPHANGLAP RPPGQDPAKK ATRVSLQGRG ENNELLKEIE PVLSELLTSGS RGVKGGAPAK AEMKDMGIQV DRDLDGKSHK PLPLGVENDR VFNDLWGKGN VPVVLNNPYS EKEQPPTSGK QSPTKNGSPS KCPRFLKVKV WETEVLVLTDT LHLKSTLETG CTEYICMCSI MHPSQHARRP EDVRTKGLF PLAKEFIDQY YSSIKRFGSK AHMERLEEVN KEIDTTSTYQ LKDELIYGA KHAWRNASRC VGRIQWSKLQ VFDARDCTTA HGMFNYICNH VKYATNKGNL RSAITIFPQR TDGKHDFRVW NSQLIRYAGY KQPDGSTLGD PANVQFTEIC IQQGWKPPRG RFDVLPPLLQ ANGNPELFLQ IPPELVLEVP IRHPKFEWFK DLGLKWYGLP AVSNMLLEIG GLEFSACPFS GWYMGTEIGV RDYCDNSRYN ILEEVAKKMN LDMRKTSSLW KDQALVEINI AVLYSFQSDK VTIVDHHSAT ESFIKHMENE YRCRGGCPAD WVVIVPPMSG SITPVFHQEM LNYRLTPSFE YQPDPWNTHV

WKG TNGTPTK RRAIGFKKLA EAVKFSAKLM GQAMAKRVKA TILYATETGK SQAYAKTLCE
IFKHAFDAKV MSMEEDIVH LEHETLVLVV TSTFGNGDPP ENGEKFGCAL MEMRHPNSVQ
EERKSYKVRV NSVSSYSDSQ KSSGDGPDLR DNFESAGPLA NVRFSVFGLG SRAYPHFCAF
GHAVDTLLEE LGGERILKMR EGDELGQEE AFRTWAKKVF KAACDVFCVG DDVNIKANN
SLISNDRSWK RNKFR LTFVA EAPELTQGLS NVHKKRVSA RLLSRQNLQS PKSSRSTIFV
RLHTNGSQEL QYQPGDHLGV FPGNHEDLVN ALIERLEDAP PVNQMVKVEL LEERN TALGV
ISNWTDELRL PPCTIFQAFK YYLDITPPT PLQLQQFASL ATSEKEKQRL LVLSKGLQEY
EEWKWGKNPT IVEVLEEFPS IQMPATLLLT QLSLLQPRYY SSSSPDMYP DEVHLTVAIV
SYRTRDGEGP IHGVCSSWL NRIQADELVP CFVRGAPSFH LPRNPQVPCI LVGPGTGIAP
FRSFWQQRQF DIQHKGMNPC PMVLVFGCRQ SKIDHIYREE TLQAKNKGVF RELYTAYSRE
PDKPKKYVQD ILQEQLAESV YRALKEQGGH IYVCGDVTMA ADVLKAIQRI MTQQGKLSAE
DAGVFISMR DDNRYHEDIF GVTLRTYEVT NRLRSESI AF IEESKKTDE VFSS **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. {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:	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