

## Product datasheet for **TP322384M**

### **NOS1 (NM\_000620) Human Recombinant Protein**

#### **Product data:**

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human nitric oxide synthase 1 (neuronal) (NOS1), 100 µg
Species:	Human
Expression Host:	HEK293T



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**Expression cDNA Clone or AA Sequence:** >RC222384 representing NM\_000620  
**Red**=Cloning site **Green**=Tags(s)

MEDHMFVQVQIQPNVISVRLFKRKVGGLGFLVKERVSKPPVIISDLIRGGAAEQSGLIQAGDIILAVNGR  
 PLVDLSYDSALEVLRGIASETHVVLIRGPEGFTTHLETTFTGDGTPKTIRVTQPLGPPTKAVDLSHQPP  
 AGKEQPLAVDGASGPGNGPQHAYDDGQEAGSLPHANGLAPRPPGQDPAKKATRVSLQGRGENNELLKE  
 IE  
 PVLSLLTSGSRGVKGGAPAKAEMKDMGIQVDRDLGKSHKPLPLGVENDRVFNDLWGKGNVPVVLNNP  
 YS  
 EKEQPPTSGKQSPTKNGSPSKCPRFLKVKNWETEVVLTDTLHLKSTLETGCTEYICMGSIMHPSQHARRP  
 EDVRTKGQLFPLAKEFIDQYSSIKRFGSKAHMERLEEVEIDTTSTYQLKDTELIYGAKHAWRNASRC  
 VGRIQWSKLQVFDARDCTTAHGMFNYICNHVKYATNKGNLRSAITFQRTDGKHDFFRVWNSQLIRYAGY  
 KQPDGSTLGD PANVQFTEICIQQGKPPRGRFDVPLLLQANGNDPELFQIPPELVLEVPIRHPKFEWFK  
 DLGLKWYGLPAVSNMELLEIGGLEFSACPFSGWYMGTEIGVRDYCDNSRYNILEEVAKKMNLDMRKTSSL  
 W  
 KDQALVEINIAVLYSFQSDKVTIVDHHSATESFIKHMENEYRCRGGCPADWWVWVPPMSGITPVFHQEM  
 LNYRLTPSFEYQPD PWNTHVWKG TNGTPTKRRRAIGFKKLAEAVKFSAKLMGQAMAKRVKATILYATETGK  
 SQAYAKTLCEIFKHAFDAKVMSEEDYDIVHLEHETLVLVVTSTFGNGDPPENGEKFGCALMEMRHPNSVQ  
 EERKSYKVRFNSVSSYSDSQSSGDGPDLRDNFESAGPLANVRFVSFGLGSRAYPHFCAFGHAVDTLLEE  
 LGGERILKMREGDELCEGQEEAFRTWAKKVFKAACDVFCVGDDVNIEKANNSLISNDRSWKRNKFRLTFA  
 EAPELTQGLSNVHKRVSAARLLSRQNLQSPKSSRSTIFVRLHTNGSQELQYQPGDHLGVFPGNHEDLVN  
 ALIERLEDAPPVNQMVKVELLEERN TALGVISNWTDELRLPPCTIFQAFKYLDITTPPTPLQLQQFASL  
 ATSEKEKQRLVLVSKGLQEYEEWKWGKNPTIVEVLEEFPSIQMPATLLLTQLSLLQPRYSSISSSPDMYP  
 DEVHLTVAIVSYRTRDGEPIHHGVCSSWLNRIQADELVPCFVRGAPSFHLPRNPQVPCILVPGGTGIAP  
 FRFSWQQRQFDIQHKGMNCPMVLVFGCRQSKIDHIYREETLQAKNKGVFRELYTAYSREPDKPKKYVQ  
 D  
 ILQEQLAESVYRALKEQGGHIYVCGDVTMAADV LKAIQRIMTQQGKLSAEDAGVFISMRMRDDNRYHEDIF  
 GVTLRTYEVTNRLRSESI AFIEESKKDTDEVFSS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 160.8 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

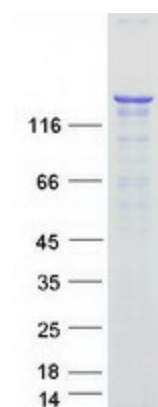
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u><a href="#">NP_000611</a></u>
<b>Locus ID:</b>	4842
<b>UniProt ID:</b>	<u><a href="#">P29475</a></u>
<b>RefSeq Size:</b>	7124
<b>Cytogenetics:</b>	12q24.22
<b>RefSeq ORF:</b>	4302
<b>Synonyms:</b>	bNOS; IHPS1; N-NOS; NC-NOS; nNOS; NOS
<b>Summary:</b>	The protein encoded by this gene belongs to the family of nitric oxide synthases, which synthesize nitric oxide from L-arginine. Nitric oxide is a reactive free radical, which acts as a biologic mediator in several processes, including neurotransmission, and antimicrobial and antitumoral activities. In the brain and peripheral nervous system, nitric oxide displays many properties of a neurotransmitter, and has been implicated in neurotoxicity associated with stroke and neurodegenerative diseases, neural regulation of smooth muscle, including peristalsis, and penile erection. This protein is ubiquitously expressed, with high level of expression in skeletal muscle. Multiple transcript variants that differ in the 5' UTR have been described for this gene but the full-length nature of these transcripts is not known. Additionally, alternatively spliced transcript variants encoding different isoforms (some testis-specific) have been found for this gene.[provided by RefSeq, Feb 2011]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Arginine and proline metabolism, Calcium signaling pathway, Long-term depression, Metabolic pathways, Pathways in cancer, Small cell lung cancer

### Product images:



Coomassie blue staining of purified NOS1 protein (Cat# [TP322384]). The protein was produced from HEK293T cells transfected with NOS1 cDNA clone (Cat# [RC222384]) using MegaTran 2.0 (Cat# [TT210002]).