

Product datasheet for TP322384L

NOS1 (NM_000620) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human nitric oxide synthase 1 (neuronal) (NOS1), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC222384 representing NM_000620
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MEDHMFVQVQIQPNVISVRLFKRKVGGGLGFLVKERVSKPPVIIISDLIRGGAAEQSGLIQAGDIILAVNGR
PLVDLSYDSALEVLRGIASETHWLILRGPFGFTTHLETTFTGDGTPKTIRVTQPLGPPTKAVDLSHQPP
AGKEQPLAVD GASGPGNGPQHAYDDGQEAGSLPHANGLAPRPPGQDPAKKATRVSLQGRGENNELLKEIE
PVLSELLTSGSRGVKGGAPAKAEMKDMGIQVDRDLDGKSHKPLPLGVENDRVFNDLWVGKGNVPVLLNNPYS
EKEQPPTSGKQSPTKNGSPSKCPRFLKVKNWETEVLDTLHLKSTLETGCTEYICMGSIMHPSQHARRP
EDVRTKQQLFPLAKEFIDQYSSIKRFGSKAHMERLEEVENKEIDTTSTYQLKDETELYGAKHAWRNASRC
VGRIQWSKLQVFDARDCTTAHGMFNYICNHVKYATNKGNLRSITIFPQRTDGKHD FRVWNSQLIRYAGY
KQPDGSLGDPANVQFTEICIQQGWKPPRGRFDVPLLLLQANGNDPELFQIPPELVLEVPRIHPKFEWFK
DLGLKWYGLPAVSNMLLEIGGLEFSACPFSGWYMGTEIGVRDYCDNSRYNILEEVAKKMNLDMRKTSSWL
KDQALVEINIAVLYSFQSDKVTIVDHSATESFIKHMENEYRCRGGCPADWVWVPPMSGSITPVFHQEM
LNYRLTPSFEYQPDWNTWVWKGNTGTPTKRRAIGFKLAEAVKFSAKLMGQAMAKRVKATILYATETGK
SQAYAKTLCEIFKHAFDAKVMSEEDYDIVHLEHETLVLVVTSTFGNGDPPENGEKFGCALMEMRHPNSVQ
EERKSYKVRFNVSYSYSDSQSSGDGPDRLDNFESAGPLANVRFVFLGSRAYPHFCAFHAVDTLLEE
LGGERILKMREGDEL CGQEEAFRTWAKKVFKAACDVFCVGDVNIKANNSLISNDRSWKRNKFRLT FVA
EAPELTQGLSNVHKKRVSAAARLLSRQNLQSPKSSRSTIFVRLHTNGSQELQYQPGDHLGVFPGNHEDLVN
ALIERLEDAPPVNMVVKVELLEERNALGVISNWTDELRLPPTIFQAFKYLDITTPPTPLQLQFASL
ATSEKEKQRLLVLSKGLQEYEEWKWGKNPTIVEVLEEFPSIQMPATLLLTQLSLLQPRYSISSSPDMYP
DEVHLLTVAIVSYRTRDGEPIHHGVCSSWLNRIQADELVPCFVRGAPSFHLPRNPQVPCILVGPGTGIAP
FRSFWQQRQFDIQHKGMNCPMVLVFGCRQSKIDHIYREETLQAKNKGVFRELYTAYSREPKPKKYVQD
ILQEQLAESVYRALKEQGGHIYVCGDVTMAADVLKAIQRIMTQQGKLSAEDAGVFISMRDDNRYHEDIF
GVTLRTYEVTNRLRSESI AFIEESK KDTDEVFSS

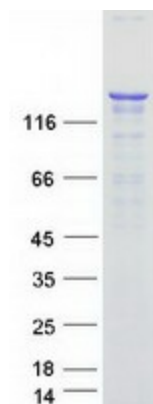
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	160.8 kDa



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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.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000611
Locus ID:	4842
UniProt ID:	P29475 , B3VK56 , B4DG68 , A0PJJ7
RefSeq Size:	7124
Cytogenetics:	12q24.22
RefSeq ORF:	4302
Synonyms:	bNOS; IHPS1; N-NOS; NC-NOS; nNOS; NOS
Summary:	<p>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]</p>
Protein Families:	Druggable Genome
Protein Pathways:	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]).