

Product datasheet for PH311819

iNOS (NOS2) (NM_000625) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NOS2 MS Standard C13 and N15-labeled recombinant protein (NP_000616)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211819
Predicted MW:	130.9 kDa
Protein Sequence:	>RC211819 representing NM_000625 Red=Cloning site Green=Tags(s)

MACPWKFLFKTKFHQYAMNGEKDINNNVEKAPCATSSPVTQDDLQYHNLKQQNESPQPLVETGKKSPES
LVKLDATPLSSPRHVRIKNWGSMTFQDTLHKKAGILTCRSKSLGSIIMTPKSLTRGPRDKTPPDELL
PQAIEFVNKYYSFKEAKIEEHLARVEAVTKEIETTGTQYQLTGDELIFATKQAWRNAPRCIGRIQWSNLQ
VFDARSCSTAREMFEHICRHVRYSTNNGNIRSAITVFPQRSKDGKDFRVWNAQLIRYAGYQMPDGSIRGD
PANVEFTQLCIDLGWPKYGRFDVPLVLQANGRDPPELFEIPDLVLEVAMEHPKYEFRELELKWYALP
AVANMLLEVGGLFPGCPFNWYMGTEIGVRDFCDVQRYNILEEVGRRMGLETHKLASLWKDQAVVEINI
AVLHSFQKQNVTIMDHSAAESFMKYMONEYRSRGGCPADWIWLVPPMSGSIIPVHQEMLNYVLSFFYY
YQVEAWKTHVWQDEKRRPKRREIPLKVLVKAVLFAACMLMRKTMASRVRVITILFATETGKSEALAWDLGAL
FSCAFNPKVVCMDKYRLSCLLEERLLLVTSTFGNGDCPGNGEKLKSLFMLKELNNKFRYAVFGLGSSM
YPRFCAFAHDIDQKLSHLGASQLTPMGEGDELSGQEDAFRSWAVQTFKAACETFDVRGKQHIQIPKLYTS
NVTWDPHHYRLVQDSQPLDLKALSSMHAKNVFTMLKSRQNLQSPTSSRATILVELSCEDGQGLNYLPG
EHLGVCPGNQPALVQGILERVVDGPTPHQTVRLEALDESGSYWVSDKRLPPCSLSQALTYFLDITTPPTQ
LLLQKLAQVATEEPERQRLAALCQPSEYSKWKFTNSPTFLEVLEEFPSLRVSAGFLLSQLPILKPRFYSI
SSSRDHMPTEIHLTVAVVYHTRDGGQPLHHGVCSTWLNLSLKPQDPVPCFVRNASGFHLPEDPSHPCILI
GPGGTGIAPFRSFQQRLHDSQHKGVRRGRTL VFGCRRPDEDHIYQEEMLEMAQKGVLVAVHTAYSRLPG
KPKVYVQDILRQQLASEVLRVLHKEPGLHYVCGDVRMARDVAHTLQQLVAAKLLKLNQEVYFFQLKSQ
KRYHEDIFGAVFPYEAKKDRVAVQPSSLEMSAL

TRTRPLEQKLISEEDLAANDILDYKDDDDK

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



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Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000616
RefSeq Size:	4221
RefSeq ORF:	3459
Synonyms:	HEP-NOS; INOS; NOS; NOS2A
Locus ID:	4843
UniProt ID:	P35228
Cytogenetics:	17q11.2
Summary:	Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. This gene encodes a nitric oxide synthase which is expressed in liver and is inducible by a combination of lipopolysaccharide and certain cytokines. Three related pseudogenes are located within the Smith-Magenis syndrome region on chromosome 17. [provided by RefSeq, Jul 2008]
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 NOS2 protein (Cat# [TP311819]). The protein was produced from HEK293T cells transfected with NOS2 cDNA clone (Cat# [RC211819]) using MegaTran 2.0 (Cat# [TT210002]).