

Recombinant Human NOS2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NOS2-722H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NOS2 MS Standard C13 and N15-labeled recombinant protein (NP_000616) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	130.9 kDa
AA Sequence	MACPWKFLFKTKFHQYAMNGEKDINNVEKAPCATSSPVTQDDLQYHNLSKQQNE SPQPLVETGKKSPESLVKLDATPLSSPRHVRIKNWGSGMTFQDTLHHKAKGILTCRS KSCLGSIMTPKSLTRGPRDKPTPPDELLPQAIEFVNKYYGSFKEAKIEEHLARVEAVT KEIETTGTQYLTGDELIFATKQAWRNAPRCIGRIQWSNLQVFDARSCSTAREMFEHI CRHVRYSTNNGNIRSAITVFPQRS DGKHDFRVWNAQLIRYAGYQMPDGSIRGDPAN VEFTQLCIDLGWKPKYGRFDVVPLVLQANGRDPELFEIPDLVLEVAMEHPKYEWFR ELELKWYALPAVANMLLEVGGLEFP GCPFN GWYMGTEIGVRDFCDVQRYNILEEVG

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RRMGLETHKLASLWKDQAVVEINIAVLHSFQKQNVTIMDHHSAAESFMKYMQNEYR
 SRGGCPADWIWLVPPMSGITPVFHQEMLNYVLSPFYYYQVEAWKTHVWQDEKRR
 PKRREIPLKVLVKAVLFACMLMRKTMASRVRVTILFATETGKSEALAWDLGALFSCAF
 NPKVVCMDKYRLSCLEERLLLVTSTFGNGDCPGNGEKLKKSFLMLKELNNKFRY
 AVFGLGSSMYPRFCAFAHDIDQKLSHLGASQLTPMGEGDELSGQEDAFRSWAVQT
 FKAACETFDVRGKQHIQIPKLYTSNVTWDPHHYRLVQDSQPLDLSKALSSMHAKNV
 FTMRLKSRQNLQSPTSSRATILVELSCEDGQGLNYLPGEHLGVCPGNQPALVQGILE
 RVVDGPTPHQTVRLEALDESGSYWVSDKRLPPCSLSQALTYFLDITTPPTQLLLQKL
 AQVATEEPERQRLEALCQPSEYSKWKFTNSPTFLEVLEEFPSLRVSAGFLLSQLPILK
 PRFYSISSSRDHMPTEIHLTVAVVTYHTRDGQGPLHHGVCSTWLNSLKPQDPVPCF
 VRNASGFHLPEDPSHPCILIGPGTGIAFERSFWQQRLHDSQHKGVRGGRMTLVFGC
 RRPDEDHIYQEEMLEMAQKGVLAHVHTAYSRLPGKPKVYVQDILRQQQLASEVLRVL
 HKEPGHLYVCGDVRMARDVAHTLKLVAACKLKLNEEQVEDYFFQLKSQKRYHEDIF
 GAVFPYEAKKDRVAVQPSSLEMSALTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

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

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name

NOS2 nitric oxide synthase 2 [Homo sapiens (human)]

Official Symbol

NOS2

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Synonyms NOS2; nitric oxide synthase 2, inducible; nitric oxide synthase 2A (inducible, hepatocytes), NOS2A; nitric oxide synthase, inducible; HEP NOS; iNOS; NOS; NOS type II; NOS, type II; inducible NOS; hepatocyte NOS; inducible NO synthase; nitric oxide synthase, macrophage; peptidyl-cysteine S-nitrosylase NOS2; nitric oxide synthase 2A (inducible, hepatocytes); INOS; NOS2A; HEP-NOS;

Gene ID [4843](#)

mRNA Refseq [NM_000625](#)

Protein Refseq [NP_000616](#)

MIM [163730](#)

UniProt ID [P35228](#)

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