

Recombinant Full Length Human NOS2 Protein, C-Flag-tagged

Cat. No. NOS2-986HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NOS2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	130.9 kDa
AA Sequence	MACPWKFLFKTKFHQYAMNGEKDINNVEKAPCATSSPVTQDDLQYHNLSKQQNE SPQPLVETGKKSPES LVKLDATPLSSPRHVRKKNWGSGMTFQDTLHHKAKGILTCR SKSCLGSIMTPKSLTRGPRDKPTPPDELL PQAIEFVNKYYGSFKEAKIEEHLARVEAV TKEIETTGTQYQLTGDELIFATKQAWRNAPRCIGRIQWSNLQ VFDARSCSTAREMFEH ICRHVRYSTNNGNIRSITVFPQRSDGKHDFRVWNAQLIRYAGYQMPDGSIRGD PA NVEFTQLCIDLGWKPKYGRFDVVPLVLQANGRDPELFEIPDLVLEVAMEHPKYEW RELELKWYALP AVANMLLEVGGLEFPFGCPFNWYMGTEIGVRDFCDVQRYNILEE

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VGRRMGLETHKLASLWKDQAVVEINI AVLHSFQKQNVTIMDHHSAAESFMKYMQNE
 YRSRGGCPADWIWLVPMSG SITPVFHQEMLN YVLSPFYY YQVEAWKTHVWQDE
 KRRPKRREIPLKVLVKAVLFACMLMRKT MASRVRV TILFATETGKSEALAWDLGAL F
 SCAFNPKVVCMDKYRLSCLEERLLLVTSTFGNGDCPGNGEKLKSLFMLKELNN
 KFRYAVFGLGSSM YPRFCAFAHDIDQKLSHLGASQLTPMGEGDEL SGQEDAFRSW
 AVQTFKAACETFDVRGKQHIQIPKLYTS NVTWDPHHYRLVQDSQPLDSLKALSSMH
 AKNVFTMRLKSRQNLQSPTSSRATILVELSCEDGQGLNYLPG EHLGVCPGNQPALV
 QGILERVVDGPTPHQTVRLEALDESGSYWVSDKRLPPCSLSQALTYFLDITTPPTQ L
 LLQKLAQVATEEPERQRLEALCQPSEYSKWKFTNSPTFLEVLEEFPSLRVSAGFLLS
 QLPILKPRFYSI SSSRDHMPTEIHLTVAVVTYHTRDGQGPLHHGVCSTWLNLSLKPQD
 PVPCFVRNASGFHLPEDPSHPCILI GPGTGIA PFRSFWQQRLHDSQHKGVRGGRM
 TLVFGCRRPDEDHIYQEEMLEMAQKGVLHAVHTAYSRLPG KPKVYVQDILRQQLAS
 EVLRVLHKEPGHLYVCGDVRMARDVAHTLKQLVAAKLKLN EEQVEDYFFQLKSQ
 KRYHEDIFGAVFPYEAKKDRVAVQPSSLEMSALTRTRPLEQKLISEEDLAANDILDYK
 DDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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
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Full Length	Full L.
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GENE INFORMATION

Gene Name	NOS2 nitric oxide synthase 2 [Homo sapiens (human)]
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Official Symbol	NOS2
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Synonyms	NOS; INOS; NOS2A; HEP-NOS
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Gene ID	4843
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mRNA Refseq	NM_000625.4
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Protein Refseq	NP_000616.3
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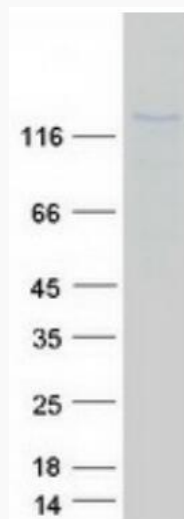
MIM	163730
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UniProt ID	P35228
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Coomassie blue staining of purified NOS2 protein.

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