Recombinant Human NOS2, His-Flag-tagged

Cat. No. NOS2-611H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NOS2(a.a. 2 – 1153) fussed with His-Flag tag at N-terminal was expressed in a baculovirus infected Sf9 cell expression system.
Species	Human
Source	Insect Cells
ProteinLength	2-1153 a.a.
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	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 80 ng/μFLAG peptide, and 20% glycerol.
Molecular Mass	MW= 133 kDa
AA Sequence	MHHHHHHDYKDDDDKACPWKFLFKTKFHQYAMNGEKDINNNVEKAPCATSSPVTQ DDLQYHNLSKQQNESPQPL VETGKKSPESLVKLDATPLSSPRHVRIKNWGSGMTF QDTLHHKAKGILTCRSKSCLGSIMTPKSLTRGPRDKPT PPDELLPQAIEFVNQYYGS FKEAKIEEHLARVEAVTKEIETTGTYQLTGDELIFATKQAWRNAPRCIGRIQWSN LQV

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	FDARSCSTAREMFEHICRHVRYSTNNGNIRSAITVFPQRSDGKHDFRVWNAQLIRYA GYQMPDGSIRGDP ANVEFTQLCIDLGWKPKYGRFDVVPLVLQANGRDPELFEIPPD LVLEVAMEHPKYEWFRELELKWYALPAVANM LLEVGGLEFPGCPFNGWYMGTEIG VRDFCDVQRYNILEEVGRRMGLETHKLASLWKDQAVVEINIAVLHSFQKQ NVTIMD HHSAAESFMKYMQNEYRSRGGCPADWIWLVPPMSGSITPVFHQEMLNYVLSPFYY YQVEAWKTHVWQ DEKRRPKRREIPLKVLVKAVLFACMLMRKTMASRVRVTILFATE TGKSEALAWDLGALFSCAFNPKVVCMDKYR LSCLEEERLLLVVTSTFGNGDCPGN GEKLKKSLFMLKELNNKFRYAVFGLGSSMYPRFCAFAHDIDQKLSHLGA SQLTPMG EGDELSGQEDAFRSWAVQTFKAACETFDVRGKQHIQIPKLYTSNVTWDPHHYRLVQ DSQPLDLSKAL SSMHAKNVFTMRLKSRQNLQSPTSSRATILVELSCEDGQGLNYLP GEHLGVCPGNQPALVQGILERVVDGPTP HQTVRLEALDESGSYWVSDKRLPPCSL SQALTYFLDITTPPTQLLLQKLAQVATEEPERQRLEALCQPSEYSKW KFTNSPTFLE VLEEFPSLRVSAGFLLSQLPILKPRFYSISSSRDHTPTEIHLTVAVVTYHTRDGQGPLH HGVCS TWLNSLKPQDPVPCFVRNASGFHLPEDPSHPCILIGPGTGIAPFRSFWQQR LHDSQHKGVRGGRMTLVFGCRR PDEDHIYQEEMLEMAQKGVLHAVHTAYSRLPG KPKVYVQDILRQQLASEVLRVLHKEPGHLYVCGDVRMARDVA HTLKQLVAAKLKLN EEQVEDYFFQLKSQKRYHEDIFGAVFPYEAKKDRVAVQPSSLEMSAL
Purity	≥95%
Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Stability	>6 months at –80 centigrade
Concentration	0.15 mg/ml
Warning	Avoid freeze/thaw cycles.

GENE INFORMATION

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Gene Name	NOS2 nitric oxide synthase 2, inducible [Homo sapiens]
Official Symbol	NOS2
Synonyms	NOS; INOS; NOS2A; HEP-NOS; nitric oxide synthase, inducible; NOS type II; NOS, type II; hepatocyte NOS; inducible NO synthase; inducible NOS; nitric oxide synthase 2A (inducible, hepatocytes); nitric oxide synthase, macrophage; peptidyl-cysteine S-nitrosylase NOS2
Gene ID	4843
mRNA Refseq	NM_000625
Protein Refseq	NP_000616
MIM	163730
UniProt ID	P35228
Chromosome Location	17q11.2
Pathway	AGE/RAGE pathway, organism-specific biosystem; ATF-2 transcription factor network, organism-specific biosystem; Calcium signaling pathway, conserved biosystem
Function	FMN binding; NADPH-hemoprotein reductase activity; iron ion binding

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA