

Product datasheet for TP311819L

iNOS (NOS2) (NM_000625) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human nitric oxide synthase 2, inducible (NOS2), 1 mg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA | >RC211819 representing NM_000625 |
| Clone or AA Sequence: | Red=Cloning site Green=Tags(s) |

MACPWKFLFKTKFHQYAMNGEKDINNNVEKAPCATSSPVTQDDLQYHNLSKQQNESPQLVETGKKSPES
LVKLDATPLSSPRHVRIKNWGSGMTFQDTLHHKAKGILTCRSKSLGSIPTPKSLTRGPRDKPTPPDELL
PQAIEFVNKYYGSFKEAKIEEHLARVEAVTKEIETTGTQYLTGDELIFATKQAWRNAPRCIGRIQWSNLQ
VFDARSCSTAREMFEHICRHVRYSTNNGNIRSITVFPQRSKGKDFRWNALIRYAGYQMPDGSIRGD
PANVEFTQLCIDLGWKPKYGRFDVPLVLQANGRDEPELFEIPDLVLEVAMEHPKYEFRELELKWYALP
AVANMLLEVGGLEFPGCPFNWYMGTEIGVRDFCDVQRYNILEEVGRRMGLETHKLASLWKDQAVEINI
AVLHSFQKQNVTIMDHSSAAESFMKYMONEYRSRGGCPADWIWLVPMSGSITPVFHQEMLNLYLSPFY
YQVEAWKTHVWQDEKRRPKREIPLKVLKAVLFACMLMRKTMASRVVITL FATETGKSEALAWDLGAL
FSCAFNPKVCMCKYRLSCLEERLLLVTSTFGNGDCPGNGEKLKSLFMLKELNNKFRYAVFGLGSSM
YPRCAFAHDIDQKLSHLGASQLTPMGEGDELSGQEDAFRSWAVQTFKAACETFDVRGKQHIQIPKLYTS
NVTWDPHHYRLVQDSQPLDLSKALSSMHAKNVFTMRLKSRQNLQSPTSSRATILVELSCEDGQGLNLYLPG
EHLGVCPGNQPALVQGILERVWDGPTPHQTVRLEALDESGSYWVSDKRLPPCSLSQALTYFLDITTPPTQ
LLLQKLAQVATEEPERQRLEALCQPSEYSKWKFTNSPTFLEVLEEFPSLRVSAGFLLSQLPILKPRFYSI
SSSRDHMPTEIHLTVAVVYHTRDGGPLHHGVCSTWLNLSLKPQDPVPCFVRNASGFHLPEDPSHPCILI
GPGTGIAPFRSFQQRLHDSQHKGVRRGGRMTLVFGCRRPDEDHIYQEEMLEMAQKGVLVHAVHTAYSRLPG
KPKVYVQDILRQQLASEVLRVLHKEPGHLYVCGDVRMARDVAHTLQKLVAAKLLNNEEQVEDYFFQLKSQ
KRYHEDIFGAVFPYEAKKDRVAVQPSSLEMSAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

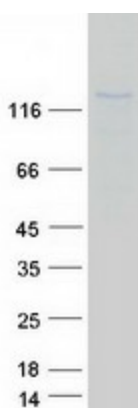
| | |
|----------------|---|
| Tag: | C-Myc/DDK |
| Predicted MW: | 130.9 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |



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| 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_000616 |
| Locus ID: | 4843 |
| UniProt ID: | P35228 |
| RefSeq Size: | 4221 |
| Cytogenetics: | 17q11.2 |
| RefSeq ORF: | 3459 |
| Synonyms: | HEP-NOS; INOS; NOS; NOS2A |
| 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]).