

Product datasheet for **TP309228M**

eNOS (NOS3) (NM_000603) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human nitric oxide synthase 3 (endothelial cell) (NOS3), 100 µg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >Peptide sequence encoded by RC209228
Blue=ORF Red=Cloning site Green=Tag(s)

MGNLKSVAQEPGPPCGLGLGLGLGCGKQGPATPAPEPSRAPASLLPPAPEHSPSSPLTQPPEGPKFP
RVKNWEVGSITYDTLSAQAAQDGPCTPRRCLGSLVFPKRLQGRPSGPPAPEQLLSQARDFINQYSSI
KRSGSQAHEQRLQEVEAEVAATGTYQLRESELVFGAKQAWRNAPRCVGRIQWGKLVFDARDCRSAQEM
FTYICNHIKYATNRGNLRSITVFPQRCPGRGDFRIWNSQLVRYAGYRQQDGSVRGDPANVEITELCIQ
HGWTPGNGRFDVLPDLLQAPDEPPELFLPPPELVLEPHPTLEWFAALGLRWYALPAVSNMILLEIGG
LEFPAAPFSGWYMSTEIGTRNLCDPHRYNILEDVAVCMDLDRTRTSSLWKDKAAVEINVAVLHSYQLAK
VTIVDHHAATASFMKHLENEQKARGGCPADWAWIVPPISGSLTPVFHQEMVNYFLSPAQRYQDPDWKGS
AAKGTGITRKKTFKEVANAVKISASLMGTVMAKRVKATILYGSETGRAQSYAQQGLRFLRKAQFDPRVLC
MDEYDVVSLHEHTLVLVVTSTFGNGDPPENGESFAAALMEMSGPYNSSPRPEQHKSYPKIRFNSISCSDP
LVSSWRRKRKESNTDSAGALGTLRFVFLGSRAYPHFCFAFARAVDTRLEELGGERLLQLGQDELGCG
QEEAFRGWAQAAQAAACETFCVGEDAKAAARDIFSPKRSWKQRQYRLSAQAEGLQLLPLIHHVRRKMF
QATIRSVENLQSSKSTRATILVRLDTGGQEGQLYQPGDHIGVCPNRPGLVEALLSRVEDPPAPTEPVA
VEQLEKGGSPGGPPPWWVRDPRPCTLRQALTFFLDITSPSPQLLRLLSTLAEPPREQQELEALSQDP
RRYEEWKWFRCPTLLEVLQFSPVALPAPLLLTQLPLLQPRYSVSSAPSTHPGEIHLTVAVLAYRTQD
GLGPLHYGVCSTWLSQLKPGDPVPCFIRGAPSFRLPPDPSLPCILVGPGTGIAPFRGFQERLHDIKSK
GLQPTPMTLVFGCRCSQLDHLYRDEVQNAQQRGVFGFVRLTAFSREPDPKTYVQDILRTELAEEVHRVL
CLERGHMFVCGDVTMATNVLQTVQRILATEGDMELDEAGDVIGVLRDQQRVHEDIFGLTLRTQEVTSRI
RTQSFSLQERQLRGAVPWAFDPPGSDTNSP
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

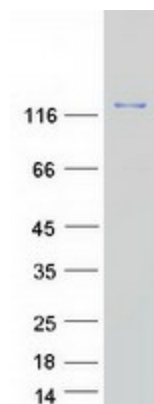
Recombinant protein using RC209228 also available, [TP309228](#)

Tag: C-Myc/DDK
Predicted MW: 133.1 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method



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Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
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_000594
Locus ID:	4846
UniProt ID:	P29474
RefSeq Size:	4345
Cytogenetics:	7q36.1
RefSeq ORF:	3609
Synonyms:	ECNOS; eNOS
Summary:	Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. Nitric oxide is synthesized from L-arginine by nitric oxide synthases. Variations in this gene are associated with susceptibility to coronary spasm. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Oct 2016]
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, VEGF signaling pathway

Product images:

Coomassie blue staining of purified NOS3 protein (Cat# [TP309228]). The protein was produced from HEK293T cells transfected with NOS3 cDNA clone (Cat# [RC209228]) using MegaTran 2.0 (Cat# [TT210002]).