

## Product datasheet for PH309228

### eNOS (NOS3) (NM\_000603) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	NOS3 MS Standard C13 and N15-labeled recombinant protein (NP_000594)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209228
Predicted MW:	133.3 kDa
Protein Sequence:	>Peptide sequence encoded by RC209228 Blue=ORF Red=Cloning site Green=Tag(s)

MGNLKSVAQEPGPPCGLGLGLGLCGKQGPATPAPEPSRAPASLLPPAPEHSPSSPLTQPPEGPKFP  
RVKNWEVGSITYDTLSAQAQDGPCTPRRCLGSLVFPRKLQGRPSGPPAPEQLLSQARDFINQYSSSI  
KRSGSQAHEQRLQEVEAEVAATGTYQLRESELVFGAKQAWRNAPRCVGRIQWGLQVFDARDCRSAQEM  
FTYICNHIKYATNRGNLRSAITVFPQRCPGRGDFRIWNSQLVRYAGYRQQDGSVGRDPANVEITELCIQ  
HGWTGPNGRFDVLPDLLQAPDEPPELFLPPELVLEVPLEHPTLEWFAALGLRWYALPAVSNMLLEIGG  
LEFPAAPFSGWYMSTEIGTRNLCDPHRYNILEDVAVCMDLDRTRTSSLWKDKAAVEINAVLHSYQLAK  
VTIVDHHAAATASFMKHLENEQKARGGCPADWAWIVPPI SGSLTPVFHQEMVNYFLSPAFRYQDPDWKGS  
AAKGTGITRKKTFKEVANAVKISASLMGTVMAKRVKATILYGSETGRAQSYAQQGLRFRKAFDPRVLC  
MDEYDVVSLHEHETLVLVVTSTFGNGDPPENGESFAALMEMSGPYNSSRPEQHKSYKIRFNSISCSDP  
LVSSWRRKRKESNTDSAGALGTLRFVFLGSRAYPHFCAFARAVDTRLEELGGERLLQLQGQDELGG  
QEEAFRGWAQAAFQAACETFCVGEDAKAAARDIFSPKRSWKRQRYRLSAQAEGLQLLPLIHVHRRKMF  
QATIRSVENLQSSKSTRATILVRLDTGGQEGLYQPGDHIGVCPNRPGLVEALLSRVEDPPAPTEPVA  
VEQLEKGSPPGPPGWDRPRLPPCTLRQALTFFLDITSPSPQLLRLLSTLAEPPREQQEALSQDP  
RRYEKWFRCPTLLEVLQFPSVALPAPLLLTLQLLQPRYYSVSSAPSTHPGEIHLTVAVLAYRTQD  
GLGPHYGV CSTWLSQLKPGDPVPCFIRGAPSFRLPPDPSLPCILVGPGTGIAPFRGFQERLHDIESK  
GLQPTPMTLVFGCRCSQLDHLRDEVQNAQQRGVGRVLTAFAFREPDPNPKTYVQDILRTEAAEVHRVL  
CLERGHMFVCGDVTMATNVLQTVQRILATEGDMELDEAGDVIGVLRDQQRVHEDIFGLTLRTQEVTSRI  
RTQSFSLQERQLRGAVPWAFDPPGSDTNSP  
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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

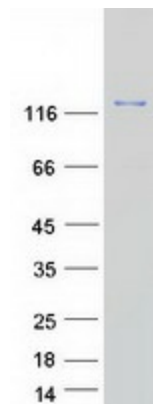
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method



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<b>Labeling Method:</b>	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3
<b>Storage:</b>	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_000594</a>
<b>RefSeq Size:</b>	4345
<b>RefSeq ORF:</b>	3609
<b>Synonyms:</b>	ECNOS; eNOS
<b>Locus ID:</b>	4846
<b>UniProt ID:</b>	<a href="#">P29474</a>
<b>Cytogenetics:</b>	7q36.1
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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]).