

## Product datasheet for **TP309228L**

### 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), 1 mg  
**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  
 KRSGSQAHEQRLQEVEAEVAATGTYQLRESELVFGAKQAWRNAPRCVGRIQWGKLQVFDARDCRSAQEM  
 FTYICNHIKYATNRGNLRSITVFPQRCPRGRDFRIWNSQLVRYAGYRQQDGSVRGDPANVEITELCIQ  
 HGWTPGNGRFDVLPDLLQAPDEPPELFLPPPELVLEVPLEHPTLEWFAALGLRWYALPAVSNMILLEIGG  
 LEFPAAPFSGWYMSTEIGTRNLCDPHRYNILEDVAVCMDLDRTRTSSLWKDKAAVEINVAVLHSYQLAK  
 VTIVDHHAAATASFMKHLENEQKARGGCPADWAWIVPPISGSLTPVFHQEMVNYFLSPAQRYQDPDWKGS  
 AAKGTGITRKKTFKEVANAVKISASLMGTVMAKRVKATILYGSETGRAQSYAQQGLRFLRKAQFDPRVLC  
 MDEYDVVSLHEHTLVLVVTSTFGNGDPPENGESFAAALMEMSGPYNSSPRPEQHKSYPKIRFNSISCSDP  
 LVSSWRRKRKESNTDSAGALGTLRFVFLGSRAYPHFCFAFARAVDTRLEELGGERLLQLGQGDDELGG  
 QEEAFRGWAQAAQAAACETFCVGEDAKAAARDIFSPKRSWKQRQYRLSAQAEGLQLLPLGIHVHRRKMF  
 QATIRSVENLQSSKSTRATILVRLDTGGQEGQLYQPGDHIGVCPNRPGLVEALLSRVEDPPAPTEPVA  
 VEQLEKGGSPGGPPPWWRDPRPCTLRQALTFFLDITSPSPQLLRLLSTLAEEPREQQELEALSQDP  
 RRYEWWKWFRCPTLLEVLQFSPVALPAPLLLTQLPLLQPRYSVSSAPSTHPGEIHLTVAVLAYRTQD  
 GLGPLHYGVCSTWLSQLKPGDPVPCFIRGAPSFRLPPDPSLPCILVGPVTGIAPFRGFQERLHDIKESK  
 GLQPTPMTLVFGCRCSQLDHLRYDEVQNAQQRGVFGFRVLTAFSREPDPKTYVQDILRTEAAEVHRVL  
 CLERGHMFVCGDVTMATNVLQTVQRILATEGDMELDEAGDVIGVLRDQQRVHEDIFGLTLRTQEVTSRI  
 RTQSFSLQERQLRGAVPWAFDPPGSDTNSP  
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

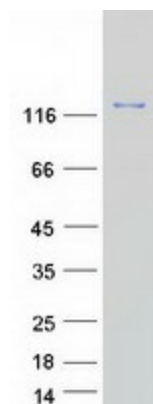
Recombinant protein using RC209228 also available, [TP309228](#)

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



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<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_000594</a>
<b>Locus ID:</b>	4846
<b>UniProt ID:</b>	<a href="#">P29474</a>
<b>RefSeq Size:</b>	4345
<b>Cytogenetics:</b>	7q36.1
<b>RefSeq ORF:</b>	3609
<b>Synonyms:</b>	ECNOS; eNOS
<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]).