

Recombinant Full Length Human NOS3 Protein, C-Flag-tagged

Cat. No. NOS3-157HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NOS3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	133.1 kDa
AA Sequence	MGNLKSVAQEPGPPCGLGLGLGLGLCGKQGPATPAPEPSRAPASLLPPAPEHSPP SSPLTQPPEGPKFP RVKNWEVGSITYDTLSAQAAQDGPCTPRRCLGSLVFPKRLQ GRPSGPPAPEQLLSQARDFINQYYSSI KRSGSQAHEQRLQEVEAEVAATGTYQLR ESELVFGAKQAWRNAPRCVGRIQWGKLQVFDARDCRSAQEM FTYICNHIKYATNR GNLRSITVFPQRCPRGRGDFRIWNSQLVRYAGYRQQDGSVRGDPANVEITELCIQ H GWTPGNGRFDVLPDLLQAPDEPPELFLPPPELVLEVPLEHPTLEWFAALGLRWYALP AVSNMLLEIGG LEFPAAPFSGWYMSTEIGTRNLCDPHRYNILEDVAVCMDLDTRTTS SLWKDKAAVEINAVLHSYQLAK VTIVDHHAATASFMKHLNEQKARGGCPADWA

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WIVPPISGSLTPVFHQEMVNYFLSPAFRYQDPDWKGS AAKGTGITRKKTFKEVANA
 VKISASLMGTVMARVKATILYGSETGRAQSYAQQGLRFRKAFDPRVLC MDEYDV
 VSLEHETLVVVTSTFGNGDPPENGESFAAALMEMSGPYNSSPRPEQHKSYPKIRFN
 SISCSDP LVSSWRRKRKESNTDSAGALGTLRFCVFLGSRAYPHFCAFARAVDTR
 LEELGGERLLQLGQGDELCEG QEEAFRGWAQAAFQAACETFCVGEDAKAAARDIFS
 PKRSWKRQRYRLSAQAEGLQLLPGLIHVHRRKMF QATIRSVENLQSSKSTRATILVR
 LDTGGQEGQLYQPGDHIGVCPNRPGLVEALLSRVEDPPAPTEPVA VEQLEKGSP
 GGPPPGWVRDPRLPCTLRQALTFFLDITSPSPQLRLSTLAEPPREQQELEALS
 QDP RRYEEWKWFRCPPTLLEVLEQFPSVALPAPLLLTQLPLLQPRYYSVSSAPSTHP
 GEIHLTVAVLAYRTQD GLGPLHYGVCSTWLSQLKPGDPVPCFIRGAPSFRLPPDPS
 LPCILVGPGTGIAPFRGFQERLHDIESK GLQPTPMTLVFGCRCSQLDHLRDEVQ
 NAQQRGVFGRVLTAFSREPDNPKTYVQDILRTELAAEVHRLV CLERGHMFVCGDV
 TMTNVLQTVQRILATEGDMELDEAGDVIGVLRDQQRYPHEDIFGLTLRTQEVTSRI
 RTQSFSLQERQLRGAVPWAFDPPGSDTNSPTRTRPLEQKLISEEDLAANDILDYKDD
 DDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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
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Full Length	Full L.
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GENE INFORMATION

Gene Name	NOS3 nitric oxide synthase 3 [Homo sapiens (human)]
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Official Symbol	NOS3
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Synonyms	eNOS; ECNOS
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Gene ID	4846
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mRNA Refseq	NM_000603.5
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Protein Refseq	NP_000594.2
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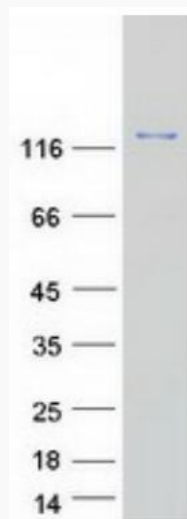
MIM	163729
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UniProt ID	P29474
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Coomassie blue staining of purified NOS3 protein.

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