

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	<p>MGNLKSVAQEPGPPCGLGLGLGLGLCGKQGPATPAPEPSRAPASLLPPAPEHSPP SSPLTQPPEGPKFP RVKNWEVGSITYDTLSAQAAQQDGPCTPRRCLGSLVFPKRLQ GRPSGPPAPEQLLSQARDFINQYYSSI KRSGSQAHEQRLQEVEAEVAATGTYQLR ESELVFGAKQAWRNAPRCVGRIQWGKLVFDARDCRSAQEM FTYICNHIKYATNR GNLRSAITVFPQRCPRGRGDFRIWNSQLVRYAGYRQQDGSVRGDPANVEITELCIQ H GWTPGNGRFDVLPDLLQAPDEPPELFLLPPELVLEVPLEHPTLEWFAALGLRWYALP AVSNMLLEIGG LEFPAAPFSGWYMSTEIGTRNLCDPHRYNILEDVAVCMDLDRTRTTS SLWKDKAAVEINVAVLHSYQLAK VTIVDHHAAATASFMKHLNEQKARGGCPADWA</p>

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WIVPPISGSLTPVFHQEMVNYFLSPAFLRYQDPWPWKS AAKGTGITRKKTFKEVANA
 VKISASLMGTVMKRKVKATILYGSETGRAQSYAQQGLRFLFRKAFDPRVLC MDEYDV
 VSLEHETLVLVVTSTFGNGDPPENGESFAAALMEMSGPYNSSPRPEQHKSYPKIRFN
 SISCSDP LVSSWRRKRKESNTDSAGALGTLRFCVFGLGSRAYPHFCAFARAVDTR
 LEELGGERLLQLGQGDELCEG QEEAFRGWAQAAFQAACETFCVGEDAKAAARDIFS
 PKRSWKRQRYRLSAQAEGQLLPLGLIHVHRRKMF QATIRSVENLQSSKSTRATILVR
 LDTGGQEGLQYQPGDHIGVCPNRPGLVEALLSRVEDPPAPTEPVA VEQLEKGSP
 GGPPPGWVRDPRLPCTLRQALTFLLDITSPSPQLLRLLSTLAEPPREQQELEALS
 QDP RRYEEWKWFRCPTLLEVLQFPSVALPAPLLLTLQPLLQPRYYSVSSAPSTHP
 GEIHLTVAVLAYRTQD GLGPLHYGVCSTWLSQLKPGDPVPCFIRGAPSFRLPPDPS
 LPCILVGPGTGIAPFRGFQERLHDIESK GLQPTPMTLVFGCRCSQLDHLRDEVQ
 NAQQRGVFRVLTAFSREPDNPKTYVQDILRTELAEEVHRVL CLERGHMFCVGDV
 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

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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

Full Length Full L.

GENE INFORMATION

Gene Name NOS3 nitric oxide synthase 3 [Homo sapiens (human)]

Official Symbol NOS3

Synonyms eNOS; ECNOS

Gene ID 4846

mRNA Refseq NM_000603.5

Protein Refseq NP_000594.2

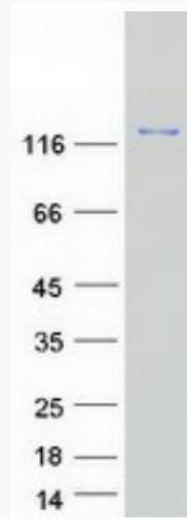
MIM 163729

UniProt ID P29474

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Coomassie blue staining of purified NOS3 protein.

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