Recombinant Human NOS3

Cat. No. NOS3-28567TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 61-160 of Human eNOS with a proprietary tag; Predicted MWt 36.63 kDa including tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
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. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Platelets, placenta, liver and kidney.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% Glutathione

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	QPPEGPKFPRVKNWEVGSITYDTLSAQAQQDGPCTPRRCLGSLVFPRKLQGRPSP GPPAPEQLLSQARDFINQYYSSIKRSGSQAHEQRLQEVEAEVAAT
Sequence Similarities	Belongs to the NOS family.Contains 1 FAD-binding FR-type domain.Contains 1 flavodoxin-like domain.

GENE INFORMATION

Gene Name	NOS3 nitric oxide synthase 3 (endothelial cell) [Homo sapiens]
Official Symbol	NOS3
Synonyms	NOS3; nitric oxide synthase 3 (endothelial cell); nitric oxide synthase, endothelial; ECNOS; endothelial nitric oxide synthase; eNOS;
Gene ID	4846
mRNA Refseq	NM_000603
Protein Refseq	NP_000594
Uniprot ID	P29474
Chromosome Location	7q36
Pathway	ACE Inhibitor Pathway, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Arginine and proline metabolism,

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	organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Calcium signaling pathway, organism-specific biosystem;
Function	FMN binding; NADP binding; actin monomer binding; arginine binding; cadmium ion binding;

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