

Recombinant Human NOS1 protein, His-tagged

Cat. No. NOS1-7736H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human NOS1 aa. (Ile1199~Ile1399 (Accession # P29475)) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ile1199~Ile1399
Description	The protein encoded by this gene belongs to the family of nitric oxide synthases, which synthesize nitric oxide from L-arginine. Nitric oxide is a reactive free radical, which acts as a biologic mediator in several processes, including neurotransmission, and antimicrobial and antitumoral activities. In the brain and peripheral nervous system, nitric oxide displays many properties of a neurotransmitter, and has been implicated in neurotoxicity associated with stroke and neurodegenerative diseases, neural regulation of smooth muscle, including peristalsis, and penile erection. This protein is ubiquitously expressed, with high level of expression in skeletal muscle. Multiple transcript variants that differ in the 5' UTR have been described for this gene but the full-length nature of these transcripts is not known. Additionally, alternatively spliced transcript variants encoding different isoforms (some testis-specific) have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 24.2kDa

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Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 8.5.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	NOS1 nitric oxide synthase 1 [Homo sapiens (human)]
Official Symbol	NOS1
Synonyms	NOS; bNOS; nNOS; IHPS1; N-NOS; NC-NOS; NOS type I; constitutive NOS; neuronal NOS; nitric oxide synthase 1 (neuronal); peptidyl-cysteine S-nitrosylase NOS1; nitric oxide synthase, brain
Gene ID	4842

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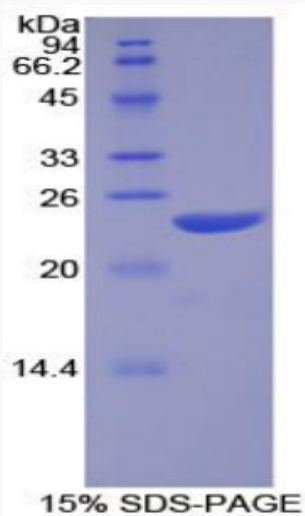
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mRNA Refseq [NM_000620.4](#)

Protein Refseq [NP_000611.1](#)

UniProt ID [P29475](#)

SDS-PAGE



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