Active Recombinant Human NOS1 protein

Cat. No. NOS1-16H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NOS1 was expressed in E. coli.
Species	Human
Source	E.coli
Description	NOS is responsible for the biosynthesis of nitric oxide from L-arginine in nervous tissues. nNOS is calcium/calmodulin dependent and has a Km = 2.0 μM for L-arginine.
Form	40Mm EPS buffer PH7.5 100mMNaCl, 5% glycerol, 5uM H4B, 100uM L-arginine.
Bio-activity	350-450 units/mg protein
Molecular Mass	160 kDa
Unit Definition	One unit of enzyme activity represent the amount of enzyme that produce 1nmole of nitric oxide per minute at 37centigrade in 40mM Tris-Hcl, or Hepes or EPPs buffer,PH7.5 containg 5-10 uM Oxyhemoglobin. 1mM NADPH, 2uM FMN/FAD, 5uM H4B, 100uM L-arginine, 50units/ml Catalase, 5units/ml SOD, 0.1mg/ml BSA, 35ul of 9mM EDTA and and 35 ul of 150mg/ml CaM and 12.5mM CaCl2.
Storage	Store at -70 centigrade

GENE INFORMATION

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Gene Name	NOS1 nitric oxide synthase 1 (neuronal) [Homo sapiens]
Official Symbol	NOS1
Synonyms	NOS1; nitric oxide synthase 1 (neuronal); NOS; nitric oxide synthase, brain; nNOS; NOS type I; neuronal NOS; constitutive NOS; peptidyl-cysteine S-nitrosylase NOS1; bNOS; IHPS1; N-NOS; NC-NOS;
Gene ID	4842
mRNA Refseq	NM_000620
Protein Refseq	NP_000611
MIM	163731
UniProt ID	P29475
Chromosome Location	12q14-qter
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Calcium signaling pathway, organism-specific biosystem;
Function	FMN binding; NADP binding; arginine binding; cadmium ion binding; calmodulin binding; flavin adenine dinucleotide binding; heme binding; metal ion binding; nitric-oxide synthase activity; nitric-oxide synthase activity; oxidoreductase activity; protein binding; tetrahydrobiopterin binding;

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