

Nitric Oxide Synthase 1, Neuronal (NOS1) Recombinant Protein | NOS1 recombinant protein

Recombinant Nitric Oxide Synthase 1, Neuronal (NOS1)

CATALOG # AAA134784	HOST E Coli	APPLICATIONS Immunoprecipitation, Immunoprecipitation, ELISA, Western Blot, SDS-Page
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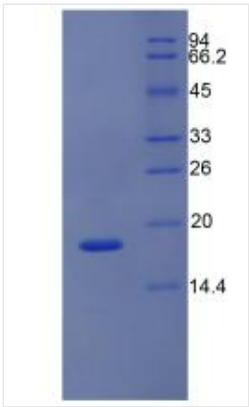
PRODUCT SYNONYMS

Nitric Oxide Synthase 1; Neuronal (NOS1); Recombinant Nitric Oxide Synthase 1; NOS1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>92%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Sequence	The target protein is fused with N-terminal His-Tag, its sequence is listed below. MGHHHH HHSSEF-FH QEMLNYRLTP SFEYQDPWN THVWKGNGT PTKRRAIGFK KLAEAVKFSA KLMGQAMAKR VKATILYATE TGKSQAYAKT LCEIFKHAFD AKAMSMEEYD IVHLEHEALV LVTSTFGNG DPPENGKFG CALM
Sequence Length	1429
Applicable Applications for NOS1 recombinant protein	IP (Coimmunoprecipitation), IP (Immunoprecipitation), ELISA, WB (Western Blot), SDS-PAGE
Organism	Mus musculus (Mouse)
Expression System	Prokaryotic expression
Residues	Phe691~Met826 with N-terminal His-Tag
Tissue Specificity	Brain.
Subcellular Location	Cell membrane, sarcolemma; Peripheral membrane protein. Cell projection, dendritic spine.
Traits	Freeze-dried powder
Predicted isoelectric point	7.9
Predicted Molecular Mass	16.8kDa
Accurate Molecular Mass	18kDa as determined by SDS-PAGE reducing conditions
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

IMAGES



Sequence

FHQEMLNYRL
TPSFEYQDPD WNTVWVKGTN GTPTKRRRAIG FKKLAEAVKF SAKLMGQAMA
KRVKATILYA TETGKSQAYA KTLCEIFKHA FDAKAMSHEE YDIVHLEHA
LVLVVTSTFG NGDPPENGEK FGCALM

SDS-PAGE

NCBI AND UNIPROT INFORMATION

NCBI GI #	6724321
NCBI GeneID	18125
NCBI Accession #	NP_032738.1
NCBI GenBank Nucleotide #	NM_008712.2
UniProt Accession #	Q9Z0J4; Q3UR10; Q64208
NCBI Official Full Name	nitric oxide synthase, brain
NCBI Official Synonym Full Names	nitric oxide synthase 1, neuronal
NCBI Official Symbol	Nos1
NCBI Official Synonym Symbols	NO; bNOS; nNOS; NOS-I; Nos-1; 2310005C01Rik
NCBI Protein Information	nitric oxide synthase, brain; N-NOS; NC-NOS; NOS type I; neuronal NOS; constitutive NOS; neuronal nitric oxide synthase; peptidyl-cysteine S-nitrosylase NOS1
UniProt Protein Name	Nitric oxide synthase, brain
UniProt Gene Name	Nos1
UniProt Synonym Gene Names	N-NOS; nNOS
UniProt Entry Name	NOS1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.