

Nitric Oxide Synthase 2, Inducible (NOS2) Active Protein | NOS2 active protein

Active Nitric Oxide Synthase 2, Inducible (NOS2)

CATALOG #
AAA149243

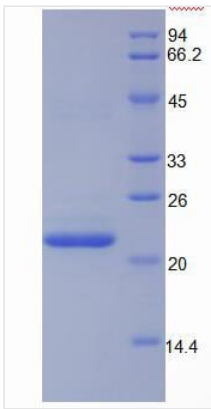
APPLICATIONS
Activity Assay, Cell Culture

PRODUCT SYNONYMS

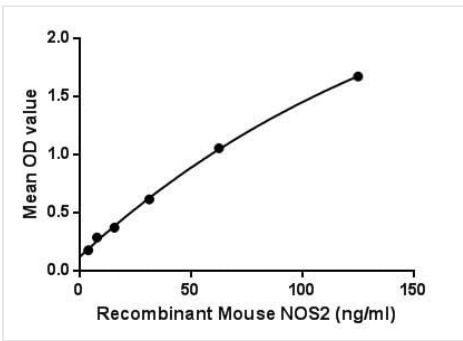
Nitric Oxide Synthase 2; Inducible (NOS2); Active Nitric Oxide Synthase 2; NOS2A; INOS; HEP-NOS; I-NOS; Hepatocytes Oxide Synthase; Peptidyl-cysteine S-nitrosylase NOS2; NOS2 active protein

PRODUCT SPECIFICATIONS

Purity/Purification	> 97%
Form/Format	Freeze-Dried Powder; 20mM Tris, 150mM NaCl, pH8.0, Containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Asp43~Thr213
Sequence Length	1144
Applicable Applications for NOS2 active protein	Activity Assay, Cell Culture
Species	Mouse
Tag	N-terminal His-Tag
Isoelectric Point	7.8
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	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. 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 degree 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.



SDS-PAGE



Activity
Figure. The binding activity of NOS2 with UCHL5. Nitric oxide synthase 2, inducible (NOS2) is a member of Nitric oxide synthases (NOSs) family. Nitric oxide synthases (NOSs) are a family of enzymes catalyzing the production of nitric oxide (NO) from L-arginine. NO is an important cellular signaling molecule. It helps modulate vascular tone, insulin secretion, airway tone, and peristalsis, and is involved in angiogenesis and neural development. Besides, Ubiquitin Carboxyl Terminal Hydrolase L5 (UCHL5) has been identified as an interactor of NOS2, thus a binding ELISA assay was conducted to detect the interaction of recombinant mouse NOS2 and recombinant mouse UCHL5. Briefly, NOS2 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to UCHL5-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-NOS2 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of NOS2 and UCHL5 was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for NOS2 active protein	Enzyme & Kinase; Metabolic pathway; Tumor immunity; Cardiovascular biology
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6754872
NCBI GeneID	18126
NCBI Accession #	NP_035057.1
NCBI GenBank Nucleotide #	NM_010927.4
UniProt Accession #	P29477
Molecular Weight	Predicted MW: 20.6kDa Accurate MW: 20kDa
NCBI Official Full Name	nitric oxide synthase, inducible isoform a
NCBI Official Synonym Full Names	nitric oxide synthase 2, inducible
NCBI Official Symbol	Nos2
NCBI Official Synonym Symbols	iNOS; Nos-2; Nos2a; i-NOS; NOS-II; MAC-NOS
NCBI Protein Information	nitric oxide synthase, inducible
UniProt Protein Name	Nitric oxide synthase, inducible
UniProt Gene Name	Nos2
UniProt Synonym Gene Names	Inosl; Inducible NOS; iNOS; MAC-NOS
UniProt Entry Name	NOS2_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.

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Online datasheet: <https://stage.aaabiotech.com/active-protein/nitric-oxide-synthase-2-inducible-nos2/149243>