

Rat Neuronal Nitric Oxide Synthase ELISA Kit | nNOS elisa kit

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CATALOG #
AAA94397

REACTIVITY
Rat

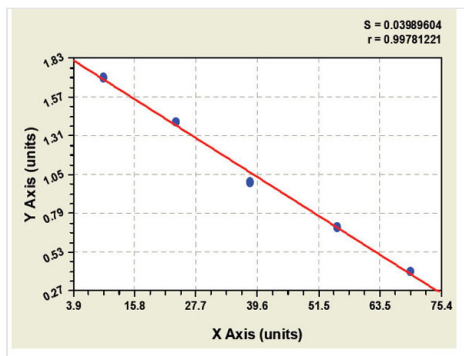
PRODUCT SYNONYMS

Neuronal Nitric Oxide Synthase; Rat Neuronal Nitric Oxide Synthase ELISA Kit; nNOS elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	50-1000pg/mL
Sensitivity	1.0pg/ml
Intended Uses	This nNOS ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat nNOS. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for nNOS elisa kit

Principle of the Assay: nNOS ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-nNOS antibody and an nNOS-HRP conjugate. The assay sample and buffer are incubated together with nNOS-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the nNOS concentration since nNOS from samples and nNOS-HRP conjugate compete for the anti-nNOS antibody binding site. Since the number of sites is limited, as more sites are occupied by nNOS from the sample, fewer sites are left to bind nNOS-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The nNOS concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	642518
NCBI GeneID	4842
Molecular Weight	164,779 Da
NCBI Official Full Name	neuronal nitric oxide synthase
NCBI Official Synonym Full Names	nitric oxide synthase 1 (neuronal)
NCBI Official Symbol	NOS1
NCBI Official Synonym Symbols	NOS; bNOS; nNOS; IHPS1; N-NOS; NC-NOS
NCBI Protein Information	nitric oxide synthase, brain; NOS type I; neuronal NOS; constitutive NOS; 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_HUMAN

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/nnos-rat-elisa-kits/neuronal-nitric-oxide-synthase/94397>