

Rat Nitric Oxide Synthase 3, Endothelial (NOS3) ELISA Kit | NOS3 elisa kit

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CATALOG #
AAA63381

REACTIVITY
Rat

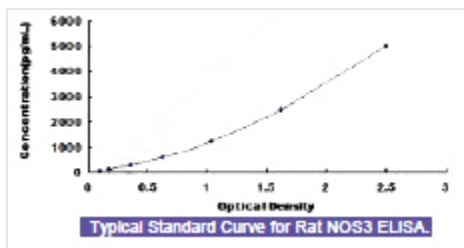
PRODUCT SYNONYMS

Nitric Oxide Synthase 3; Endothelial (NOS3); Rat Nitric Oxide Synthase 3; Endothelial (NOS3) ELISA Kit; ECNOS; NOS III; E-NOS; C-NOS; ENOS; CNOS; Constitutive NOS; NOS3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of NOS3. No significant cross-reactivity or interference between NOS3 and analogues was observed.
Sequence Length	1202
Samples	Serum, plasma, tissue homogenates, cell lysates and other biological fluids.
Assay Type	Sandwich
Detection Range	15.625-1000pg/mL
Sensitivity	5.7pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level NOS3 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level NOS3 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for NOS3 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of NOS3 in Rat serum, plasma, tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to NOS3. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to NOS3. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain NOS3, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of NOS3 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	46402488
NCBI GeneID	24600
NCBI Accession #	NP_068610.1
NCBI GenBank Nucleotide #	NM_021838.2
UniProt Accession #	Q62600; O88672; O89041; Q62734; Q68GV6; Q75NE4
Molecular Weight	133,290 Da
NCBI Official Full Name	nitric oxide synthase, endothelial
NCBI Official Synonym Full Names	nitric oxide synthase 3
NCBI Official Symbol	Nos3
NCBI Official Synonym Symbols	eNos
NCBI Protein Information	nitric oxide synthase, endothelial
UniProt Protein Name	Nitric oxide synthase, endothelial
UniProt Gene Name	Nos3
UniProt Synonym Gene Names	cNOS; eNOS; NOSIII

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.