

Human eNOS/NOS3 ELISA Kit | NOS3 elisa kit

Human eNOS/NOS3 ELISA Kit PicoKine

CATALOG # AAA126675	REACTIVITY Human	APPLICATIONS ELISA
-------------------------------	----------------------------	------------------------------

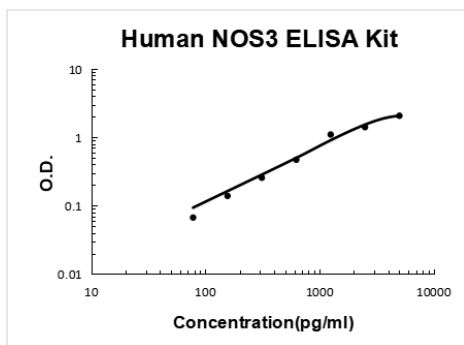
PRODUCT SYNONYMS

eNOS/NOS3; Human eNOS/NOS3 ELISA Kit PicoKine; NOS3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human NOS3
Samples	Cell culture supernatants
Detection Range	78 pg/ml - 5,000 pg/ml
Sensitivity	<10 pg/ml
Applicable Applications for NOS3 elisa kit	ELISA
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Ships with gel ice, can store for up to 3 days in room temperature. Freeze upon receiving.)

IMAGES



Standard Curve (Sample)

Human NOS3 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for NOS3 elisa kit	Background: Endothelial NOS (eNOS), also known as nitric oxide synthase 3 (NOS3) or constitutive NOS (cNOS), is an enzyme that in humans is encoded by the NOS3 gene located in the 7q35-7q36 region of chromosome 7. Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. Nitric oxide is synthesized from L-arginine by nitric oxide synthases. Variations in this gene are associated with susceptibility to coronary spasm. Alternative splicing and the use of alternative promoters results in multiple transcript variants. Principle of the Assay: The Picokine™ Human NOS3 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human NOS3 with a 96-well strip plate that is pre-coated with antibody specific for NOS3. The detection antibody is a biotinylated antibody specific for NOS3. The capture antibody is a monoclonal antibody from mouse and the detection antibody is a biotinylated polyclonal antibody from goat. The kit includes Human NOS3 protein as standards. To measure Human NOS3, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbound ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human NOS3 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human NOS3 in the sample.
Product Categories/Family for NOS3 elisa kit	PicoKine ELISA Kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	40254422
NCBI GeneID	4846
NCBI Accession #	NP_000594.2
NCBI GenBank Nucleotide #	NM_000603.4
UniProt Accession #	P29474; Q13662; Q14251; Q14434; Q548C1; Q6GSL5; Q9UDC6; A0S0A7; A0S0A8; A8KA63; B2RCQ1; E9PFR2
Molecular Weight	133,289 Da
NCBI Official Full Name	nitric oxide synthase, endothelial isoform 1
NCBI Official Synonym Full Names	nitric oxide synthase 3 (endothelial cell)
NCBI Official Symbol	NOS3
NCBI Official Synonym Symbols	eNOS; ECNOS
NCBI Protein Information	nitric oxide synthase, endothelial; cNOS; EC-NOS; NOSIII; NOS type III; endothelial NOS; constitutive NOS
UniProt Protein Name	Nitric oxide synthase, endothelial
UniProt Gene Name	NOS3
UniProt Synonym Gene Names	cNOS; eNOS; NOSIII
UniProt Entry Name	NOS3_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.