

Mouse cGMP-specific 3',5'-cyclic phosphodiesterase ELISA Kit | Pde5a elisa kit

Mouse cGMP-specific 3',5'-cyclic phosphodiesterase ELISA Kit

CATALOG #
AAA101009

REACTIVITY
Mouse

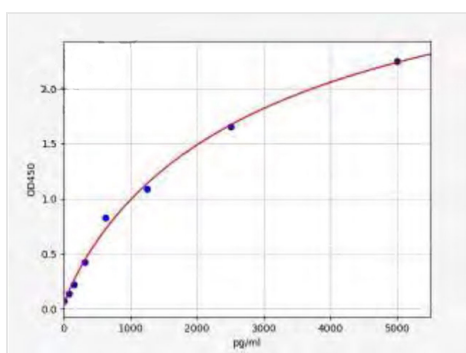
PRODUCT SYNONYMS

cGMP-specific 3'; 5'-cyclic phosphodiesterase; Mouse cGMP-specific 3'; 5'-cyclic phosphodiesterase ELISA Kit; Pde5a/cGMP-binding cGMP-specific phosphodiesterase (CGB-PDE)/PDE5; Pde5a elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Specifically recognize Pde5a, no obvious cross reaction with other analogues
Sequence Length	821
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Pde5a elisa kit	Background: PDE5A, also designated cGMP-binding cGMP-specific phosphodiesterase or CGB-PDE, regulates the intracellular concentration of cyclic nucleotides and thereby is important in signal transduction. PDE5A catalyzes the hydrolysis of cGMP to 5?GMP and the protein is expressed in heart, placenta, aortic smooth muscle cells, skeletal muscle and pancreas. In disorders such as cardiac failure, PDE5A upregulation may contribute to a decline in cGMP and protein kinase G signaling, exacerbating dysfunction. In the heart, PDE5A signaling appears compartmentalized, and its inhibition is cardioprotective against ischemia-reperfusion and antracycline toxicity, blunts acute adrenergic contractile stimulation, and can suppress chronic hypertrophy and dysfunction attributable to pressure-overload. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti Pde5a antibody was precoated onto the 96-well plate. The biotin conjugated anti Pde5a antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with Pde5a conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of Pde5a in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
---	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	118404272
NCBI GeneID	780273
NCBI Accession #	NP_001072812.1
NCBI GenBank Nucleotide #	NM_001079344.1
NCBI Official Full Name	cGMP-specific 3',5'-cyclic phosphodiesterase
NCBI Official Synonym Full Names	phosphodiesterase 5A
NCBI Official Symbol	pde5a
NCBI Official Synonym Symbols	cn5a; pde5; pde5a1; cgb-pde
NCBI Protein Information	cGMP-specific 3',5'-cyclic phosphodiesterase

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/pde5a-mouse-elisa-kits/cgmp-specific-35-cyclic-phosphodiesterase/101009>