

Human Phosphodiesterase 5A, cGMP Specific (PDE5A) ELISA Kit | PDE5A elisa kit

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CATALOG #
AAA186897

REACTIVITY
Human

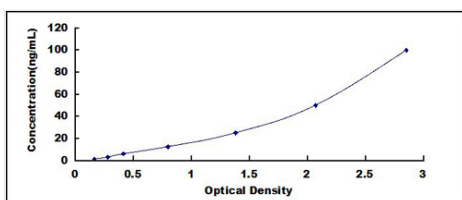
PRODUCT SYNONYMS

Phosphodiesterase 5A; cGMP Specific (PDE5A); Human Phosphodiesterase 5A; cGMP Specific (PDE5A) ELISA Kit; CGB-PDE; cGMP-binding cGMP-specific phosphodiesterase; cGMP-specific 3'; 5'-cyclic phosphodiesterase; PDE5A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Phosphodiesterase 5A, cGMP Specific (PDE5A). No significant cross-reactivity or interference between Phosphodiesterase 5A, cGMP Specific (PDE5A) and analogues was observed.
Sequence Length	833
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue Homogenates and Other Biological Fluids
Detection Range	1.56-100ng/mL
Sensitivity	< 0.56ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Phosphodiesterase 5A, cGMP Specific (PDE5A) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Phosphodiesterase 5A, cGMP Specific (PDE5A) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PDE5A elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Phosphodiesterase 5A, cGMP Specific (PDE5A). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Phosphodiesterase 5A, cGMP Specific (PDE5A). 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 Phosphodiesterase 5A, cGMP Specific (PDE5A), 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 Phosphodiesterase 5A, cGMP Specific (PDE5A) 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 #	116496777
NCBI GeneID	8654
Molecular Weight	94,805 Da
NCBI Official Full Name	Phosphodiesterase 5A, cGMP-specific
NCBI Official Synonym Full Names	phosphodiesterase 5A
NCBI Official Symbol	PDE5A
NCBI Official Synonym Symbols	CN5A; PDE5; CGB-PDE
NCBI Protein Information	cGMP-specific 3',5'-cyclic phosphodiesterase
UniProt Protein Name	cGMP-specific 3',5'-cyclic phosphodiesterase
UniProt Gene Name	PDE5A
UniProt Synonym Gene Names	PDE5; CGB-PDE

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/human-elisa-kits/phosphodiesterase-5a-cgmp-specific-pde5a/186897>