

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

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CATALOG #
AAA140855

REACTIVITY
Human

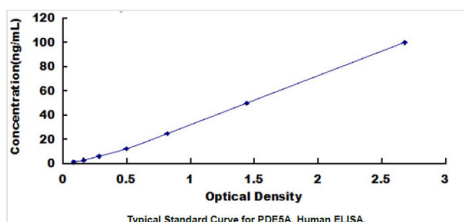
PRODUCT SYNONYMS

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 PDE5A. No significant cross-reactivity or interference between PDE5A and analogues was observed.
Sequence Length	875
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates and other biological fluids
Detection Range	1.56-100ng/mL
Sensitivity	0.59ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PDE5A 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 PDE5A were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. 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	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of PDE5A in human serum, plasma, tissue homogenates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to PDE5A. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to 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 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 PDE5A in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for PDE5A elisa kit	Enzyme & Kinase

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, cGMP-specific
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
UniProt Entry Name	PDE5A_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/human-elisa-kits/phosphodiesterase-5a-cgmp-specific-pde5a/140855>