

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

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CATALOG #
AAA17496

REACTIVITY
Rat

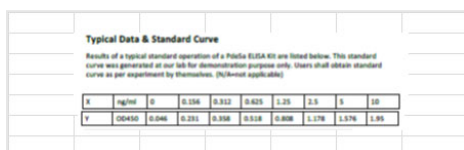
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Rat
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. Note: Limited by current skills and knowledge, it is difficult for us to complete the crossreactivity detection between Pde5a and all the analogues, therefore, cross reaction may still exist.
Sequence Length	821
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/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<8%
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<10%
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

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Pde5a antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- Pde5a antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRPStreptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Pde5a amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Pde5a can be calculated.

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.

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Online datasheet: <https://www.aaabiotech.com/pde5a-rat-elisa-kits/cgmp-specific-35-cyclic-phosphodiesterase/17496>