

Human Phosphodiesterase 12 (PDE12) ELISA Kit | PDE12 elisa kit

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CATALOG #
AAA68644

REACTIVITY
Human

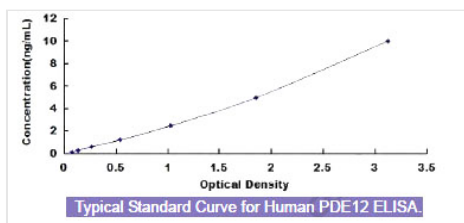
PRODUCT SYNONYMS

Phosphodiesterase 12 (PDE12); Human Phosphodiesterase 12 (PDE12) ELISA Kit; 2'-PDE; 2'-Phosphodiesterase; Mitochondrial deadenylase; PDE12 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of PDE12. No significant cross-reactivity or interference between PDE12 and analogues was observed.
Sequence Length	609
Samples	Serum, plasma, tissue homogenates or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	<0.066ng/mL.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PDE12 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 PDE12 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PDE12 elisa kit

Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of PDE12 in human serum, plasma, tissue homogenates or other biological fluids.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to PDE12. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to PDE12. 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 PDE12, 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 PDE12 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	189027129
NCBI GeneID	201626
NCBI Accession #	NP_808881.3
NCBI GenBank Nucleotide #	NM_177966.6
UniProt Accession #	Q6L8Q7; Q8IYU3; Q8NDU2; Q8TE78; B4DTU8
Molecular Weight	58,890 Da
NCBI Official Full Name	2',5'-phosphodiesterase 12 isoform 1
NCBI Official Synonym Full Names	phosphodiesterase 12
NCBI Official Symbol	PDE12
NCBI Official Synonym Symbols	2-PDE; 2'-PDE
NCBI Protein Information	2',5'-phosphodiesterase 12
UniProt Protein Name	2',5'-phosphodiesterase 12
UniProt Gene Name	PDE12
UniProt Synonym Gene Names	2'-PDE; 2-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-12-pde12/68644>