

Human Phosphodiesterase 4D, cAMP Specific (PDE4D) ELISA Kit | PDE4D elisa kit

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CATALOG #
AAA186896

REACTIVITY
Human

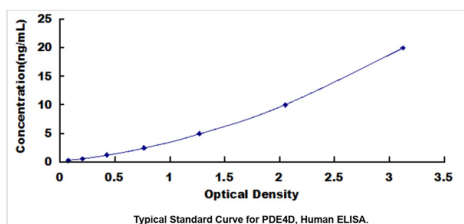
PRODUCT SYNONYMS

Phosphodiesterase 4D; cAMP Specific (PDE4D); Human Phosphodiesterase 4D; cAMP Specific (PDE4D) ELISA Kit; DPDE3; PDE43; Duncce(Drosophila)Homolog Phosphodiesterase E3; cAMP-specific 3'; 5'-cyclic phosphodiesterase 4D; PDE4D elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of PDE4D. No significant cross-reactivity or interference between PDE4D and analogues was observed.
Sequence Length	748
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.113ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PDE4D 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 PDE4D 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 PDE4D elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to PDE4D. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to PDE4D. 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 PDE4D, 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 PDE4D in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of PDE4D in human tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	335331685
NCBI GeneID	100051344
NCBI Accession #	NP_001229433.1
NCBI GenBank Nucleotide #	NM_001242504.1
NCBI Official Full Name	cAMP-specific 3',5'-cyclic phosphodiesterase 4D
NCBI Official Synonym Full Names	phosphodiesterase 4D
NCBI Official Symbol	PDE4D
NCBI Protein Information	cAMP-specific 3',5'-cyclic phosphodiesterase 4D

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-4d-camp-specific-pde4d/186896>