

Rat Acetylcholinesterase (ACHE) ELISA Kit | ACHE elisa kit

Rat Acetylcholinesterase (ACHE) Wide-range ELISA Kit

CATALOG # AAA23119	REACTIVITY Rat	APPLICATIONS ELISA
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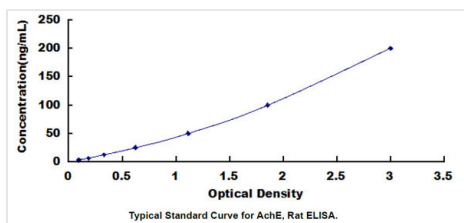
PRODUCT SYNONYMS

Acetylcholinesterase (ACHE); Rat Acetylcholinesterase (ACHE) Wide-range ELISA Kit; Acetylcholinesterase; ARACHE; N-AChE; YT; ACHE elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of AchE. No significant cross-reactivity or interference between AchE and analogues was observed.
Sequence Length	614
Assay Type	Quantitative Sandwich
Samples	Rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	3.12-200ng/mL
Sensitivity	< 1.21ng/mL
Applicable Applications for ACHE elisa kit	ELISA
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level AchE 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 AchE 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 ACHE elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to AchE. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to AchE. 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 AchE, 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 AchE 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 AchE in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
References	Piracetam as a Therapeutic Agent for Doxorubicin-Induced Cognitive Deficits by Enhancing Cholinergic Functions and Reducing Neuronal Inflammation, Apoptosis, and Oxidative Stress in Rats; Pharmaceuticals (Basel); 2022 Dec 14;15(12):1563.; PMID: 36559014; Vasudevan Mani; Department of Pharmacology and Toxicology, College of Pharmacy, Qassim University, Buraydah 51452, Saudi Arabia.

NCBI AND UNIPROT INFORMATION

NCBI GI #	25282401
NCBI GeneID	83817
NCBI Accession #	NP_742006.1
NCBI GenBank Nucleotide #	NP_742006.1
UniProt Accession #	P37136
NCBI Official Full Name	acetylcholinesterase
NCBI Official Synonym Full Names	acetylcholinesterase
NCBI Official Symbol	Ache
NCBI Protein Information	acetylcholinesterase
UniProt Protein Name	Acetylcholinesterase
UniProt Gene Name	Ache
UniProt Synonym Gene Names	AChE

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.