

# Acetylcholinesterase Research Products

## Acetylcholinesterase Research Products



- AChE activity & inhibitor screening kits
- AChE ELISA kits
- Selective AChE inhibitors
- AChE recombinant proteins & antibodies

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Acetylcholinesterase (AChE) is the main cholinesterase enzyme that catalyzes the hydrolysis of acetylcholine neurotransmitter to generate choline and acetate ions. It is found mainly at the neuromuscular junctions and cholinergic synapses, where it serves to terminate the synaptic transmission. The released choline is taken back into the presynaptic cholinergic neurons. AChE has been thought to be involved in the pathology of Alzheimer's disease with a decline in the activity and number of cholinergic neurons. Irreversible inhibition of AChE may lead to muscular paralysis, convulsions, bronchial constriction, and death by asphyxiation. BioVision offers several AChE related products including assay kits, inhibitor screening kits, ELISA, recombinant proteins, antibodies and inhibitors for research and development. BioVision's AChE activity assay kit provides a simple and sensitive method for measuring AChE activity in various sample types. AChE inhibitor screening kit can be used to screen AChE inhibitors which can increase the levels of acetylcholine and thereby enhance cholinergic neurotransmission. Several AChE inhibitors such as Donepezil and Galantamine have been approved by FDA to improve cognition in Alzheimer's disease.

### **Key Features:**

- 96-well plate based AChE assay and inhibitor screening kits
- ELISA for measuring AChE concentrations in samples
- Highly potent & selective AChE inhibitors
- AChE recombinant proteins
- Highly specific AChE antibodies

### **Antibodies**

Product Name	Cat. No.	Size	Isotype
AChE Antibody (NT)	6706	100 µl	Rabbit IgG
AChE Antibody (CT) (Clone 684CT8.3.4)	6707	100 µl	Mouse IgG1

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## Biochemicals/Inhibitors

Product Name	Cat. No.	Size	CAS.No.
Cryptotanshinone	2429	5 mg, 25 mg	35825-57-1
Curvularin	9694	1 mg, 5 mg	10140-70-2
Donepezil Hydrochloride	B3092	100 mg, 500 mg	120011-70-3
Galantamine Hydrobromide	B3094	10 mg, 50 mg	1953-04-4
(-)-Huperzine A	B3095	5 mg, 25 mg	102518-79-6
Rivastigmine tartrate	B3093	100 mg, 500 mg	129101-54-8

## Elisa Kits

Product Name	Cat. No.	Size
QuickDetect™ Acetylcholine (ACh) (Human) ELISA Kit	E4452	100 assays
QuickDetect™ Acetylcholine (ACh) (Mouse) ELISA Kit	E4453	100 assays
QuickDetect™ Acetylcholine (ACh) (Rat) ELISA Kit	E4454	100 assays

## Assay Kits

Product Name	Cat. No.	Size
Acetylcholinesterase Activity Assay Kit (C)	K764	100 assays
Acetylcholinesterase Inhibitor Screening Kit (C)	K197	100 assays
Butyrylcholinesterase Activity Kit (C)	K516	100 assays
Choline/Acetylcholine Quantification Kit (C/F)	K615	100 assays
Choline Oxidase Activity Assay Kit (F)	K2052	100 assays
Cholinesterase Activity Assay Kit (C)	K975	100 assays

\*F: Fluorometric, \*C: Colorimetric

## Proteins

Product Name	Cat. No.	Size
Human CellExp™ Acetylcholinesterase / AChE, Human Recombinant	P1475	10 µg, 50 µg

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