

# Acetylcholinesterase Red Fluorescence Assay Kit

## Product Information

### Cat.No.

Kit-0034

### Product Overview

Acetylcholinesterase Assay Kit (Red Fluorescence) is a one-step fluorometric assay for the detection of AChE activity.

### Description

Acetylcholinesterase (AChE) is one of the most crucial enzymes for nerve response and function. AChE degrades the neurotransmitter acetylcholine (ACh) into choline and acetic acid. It is mainly found at neuromuscular junctions and cholinergic synapses in the central nervous system, where its activity serves to terminate the synaptic transmission. AChE inhibitors are among the key drugs approved for Alzheimer's disease (AD) and myasthenia gravis.

### Usage

For research use only (RUO)

### Storage

Keep in freezer. Avoid exposure to light.

### Kit Components

Component A: Amplate Red 1 vial  
Component B: Acetylcholinesterase Probe (lyophilized powder) 2 bottles  
Component C: Acetylcholine 1 vial  
Component D: Acetylcholinesterase Standard (5 units) 1 vial  
Component E: Assay Buffer 10 mL  
Component F: Dilution Buffer 10 mL  
Component G: DMSO 100  $\mu$ L

### Detection method

 Fluorometric

### Features & Benefits

Broad Application: Can be used for quantifying acetylcholinesterase in solutions and in cell extracts. Sensitive: Detect as low as 0.01 mU of acetylcholinesterase in solution. Continuous: Easily adapted to automation without a separation step. Convenient: Formulated to have minimal hands-



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on time.

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