

# Acetylcholinesterase Activity Colorimetric Assay Kit

**Cat. No.** Kit-0031    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	<p>Rapid, simple &amp; convenient</p> <p>This assay kit can detect acetylcholinesterase activity as low as 0.5 mU/ml in a variety of samples</p>
<b>Description</b>	<p>Acetylcholinesterase (AChE) is one of the most crucial enzymes associated with nerve response and function. AChE is a serine protease that hydrolyzes the neurotransmitter acetylcholine. Irreversible inhibition of AChE may lead to muscular paralysis, convulsions, bronchial constriction, and death by asphyxiation.</p> <p>Acetylcholinesterase Activity Assay Kit provides a simple and sensitive method for continuous monitoring of enzymatic activity using colorimetry (OD 570 nm). In this assay, AChE converts acetylcholine substrate to choline, which is then oxidized by choline oxidase (CO) to produce an intermediate. The intermediate reacts with a highly specific probe to generate color. This assay kit can detect acetylcholinesterase activity as low as 0.5 mU/ml in a variety of samples.</p>
<b>Applications</b>	Measurement of AChE activity in various tissues/cells.
<b>Usage</b>	For Research Use Only! Not For Use in Humans.
<b>Storage</b>	-20°C
<b>Size</b>	100 assays
<b>Kit Components</b>	<ul style="list-style-type: none"> <li>• AChE Assay Buffer</li> <li>• AChE Probe (DMSO)</li> </ul>

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- AChE Substrate (Lyophilized)
- Choline Oxidase Enzyme Mix (Lyophilized)
- Choline Standard (Lyophilized)
- AChE Positive Control (Lyophilized)

**Target Species** N/A

**Detection method** Absorbance (OD 570 nm)

- Compatible Sample Types**
- Serum, plasma or blood.
  - Animal tissues: liver, heart, kidney, etc.
  - Cell culture: Adherent or suspension cells

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