

## Active Native Electric eel Acetylcholinesterase

**Cat. No.** AchE-09E    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Active Native Electric eel Acetylcholinesterase
<b>Species</b>	Electric eel
<b>Description</b>	<p>Acetylcholinesterase, Electric eel is a cholinergic enzyme that is mainly found in neuromuscular junctions and cholinergic chemical synapses and is often used in biochemical research. Acetylcholinesterase, Electric eel can catalyze the decomposition or hydrolysis of acetylcholine and some other choline esters that act as neurotransmitters into acetic acid and choline. The main function of Acetylcholinesterase, Electric eel is to terminate neuronal transmission and signal conduction between synapses to prevent ACh diffusion and activation of nearby receptors[1].</p>
<b>CAS</b>	9000-81-1
<b>Form</b>	Solid, White to off-white
<b>Bio-activity</b>	942 U/mg protein
<b>Unit Definition</b>	One unit is defined as the amount of enzyme that will hydrolyze 1.0 $\mu$ mole of acetylcholine to choline and acetate per min at pH 8.0 at 37 centigrade.
<b>Storage</b>	Store at -20 centigrade for 2 years.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

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**Reference**

1. Can Yılmaz, et al. In vitro and in silico evaluation of inhibitory effects of bisphenol derivatives on acetylcholinesterase of electric eel (*Electrophorus electricus* L.). *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology* 260 (2022): 109416.

**GENE INFORMATION**
**Gene Name**

[ache acetylcholinesterase \(Yt blood group\) \[ \*Electrophorus electricus\* \(electric eel\) \]](#)

**Official Symbol**

[AChE](#)

**Synonyms**

ache; acetylcholinesterase (Yt blood group); EC 3.1.1.7; LOW QUALITY PROTEIN: acetylcholinesterase; acetylcholinesterase; acetylcholinesterase (Cartwright blood group); acetylcholinesterase catalytic subunit

**Gene ID**

[113580815](#)

**mRNA Refseq**

[XM\\_027015620](#)

**Protein Refseq**

[XP\\_026871421](#)

**UniProt ID**

[O42275](#)

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