

Active Native Electric eel Acetylcholinesterase

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

SPECIFICATION

Product Overview	Active Native Electric eel Acetylcholinesterase
Species	Electric eel
Description	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].
CAS	9000-81-1
Form	Solid, White to off-white
Bio-activity	942 U/mg protein
Unit Definition	One unit is defined as the amount of enzyme that will hydrolyze 1.0 μ mole of acetylcholine to choline and acetate per min at pH 8.0 at 37 centigrade.
Storage	Store at -20 centigrade for 2 years.
Shipping	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) [<i>Electrophorus electricus</i> (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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