Creative Enzymes®

Native Electrophorus electricus (electric eel) Acetylcholinesterase

Cat. No. NATE-0018

Lot. No. (See product label)

Introduction

Description	Native Electrophorus Electricus Acetylcholinesterase for research on neurotransmitter hydrolysis and enzyme kinetics. Ideal for neurobiology and biochemistry studies. Creative Enzymes provides high-quality, reliable products.
Applications	The enzyme has been used as a reference to to evaluate the effect of aspartame metabolites on hippocampal acetylcholinesterase activity. The enzyme has also been used in immobilization studies for the rapid detection of acetylthiocholine chloride.
Synonyms	true cholinesterase; choline esterase I; cholinesterase; acetylthiocholinesterase; acetylcholine hydrolase; acetyl; β-methylcholinesterase; AcCholE; EC 3.1.1.7; 9000-81-1; Acetylcholinesterase; AChE; acetylhydrolase

Product Information

Source	Electrophorus electricus (electric eel)
Form	lyophilized powder
EC Number	EC 3.1.1.7
CAS No.	9000-81-1
Molecular Weight	280 kDa
Activity	> 1 ,000 units/mg protein; 200-1 ,000 units/mg protein
Isoelectric point	~5.3
Buffer	Tris buffer: soluble 1 mg/mL (0.02 M Tris buffer, pH 7.5)
Unit Definition	One unit will hydrolyze 1.0 μmole of acetylcholine to choline and acetate per min at pH 8.0 at 37°C.

Storage and Shipping Information

Storage	−20°C