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