

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 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 μ mole of acetylcholine to choline and acetate per min at pH 8.0 at 37°C.

Storage and Shipping Information

Storage

-20°C