Creative Enzymes®

Acetylcholinesterase Human, Recombinant

Cat. No. NATE-0020

Lot. No. (See product label)

Introduction

Description Acetylcholinesterase, also known as AChE or acetylhydrolase, is a hydrolase that hydrolyzes the neurotransmitter acetylcholine. AChE is found at mainly neuromuscular junctions and cholinergic brain synapses, where its activity serves to terminate synaptic transmission. It belongs to carboxylesterase family of enzymes. It is the primary target of inhibition by organophosphorus compounds such as nerve agents and pesticides.

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

Species Human

Source HEK 293 cells

Form Lyophilized powder containing phosphate buffer salt

EC Number EC 3.1.1.7

CAS No. 9000-81-1

Activity > 1,000 units/mg protein (Lowry)

Function true cholinesterase; choline esterase I; cholinesterase; acetylthiocholinesterase; acetylcholine hydrolase; acetyl; β-methylcholinesterase; AcCholE; EC 3.1.1.7; 9000-81-1; Acetylcholinesterase; AChE; acetylhydrolase

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