Creative Enzymes®

Native Human erythrocytes Acetylcholinesterase

Cat. No. NATE-0019

Lot. No. (See product label)

Introduction

Description	Native Human Erythrocytes Acetylcholinesterase for research on enzyme activity and red blood cell function. Ideal for biochemistry and hematology studies. Creative Enzymes provides high-quality, trusted products.
Applications	Acetylcholinesterase (AChE) from Creative Enzymes has been used in the structure-activity study of phosphoramido acid esters as inhibitors of AChE.
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	Human erythrocytes
Form	buffered aqueous solution. Solution in 20 mM HEPES, pH 8.0, containing 0.1% TRITON X-100
EC Number	EC 3.1.1.7
CAS No.	9000-81-1
Molecular Weight	~80 kDa
Activity	> 500 units/mg protein (BCA)
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Acetylcholine Synthesis, organism-specific biosystem; Biogenic Amine Synthesis, organism-specific biosystem; Cholinergic synapse, organism-specific biosystem; Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Monoamine Transport, organism-specific biosystem
Function	acetylcholine binding; acetylcholine binding; acetylcholinesterase activity; acetylcholinesterase activity; beta-amyloid binding; carboxylesterase activity; cholinesterase activity; collagen binding; hydrolase activity; laminin binding; protein binding; protein homodimerization activity; protein homodimerization activity; protein self-association; serine hydrolase activity
Unit Definition	One unit will hydrolyze 1.0 µmole of acetylthiocholine iodide per min at pH 7.4 at 37°C.

Storage and Shipping Information

Storage	2-8°C