

Recombinant Human ACHE, His-tagged

Cat. No. ACHE-101H Lot. No. (See product label)

SPECIFICATION

Product Overview

The protein was expressed as 6*his-tagged fusion protein by E.Coli and purified by Ni-sepharose.

Species

Human

Source

E.coli

ProteinLength

1-351aa

Description

Acetylcholinesterase hydrolyzes the neurotransmitter, acetylcholine at neuromuscular junctions and brain cholinergic synapses, and thus terminates signal transmission. It is also found on the red blood cell membranes, where it constitutes the Yt blood group antigen. Acetylcholinesterase exists in multiple molecular forms which possess similar catalytic properties, but differ in their oligomeric assembly and mode of cell attachment to the cell surface. It is encoded by the single ACHE gene, and the structural diversity in the gene products arises from alternative mRNA splicing, and post-translational associations of catalytic and structural subunits. The major form of acetylcholinesterase found in brain, muscle and other tissues is the hydrophilic species, which forms disulfide-linked oligomers with collagenous, or lipid-containing structural subunits. The other, alternatively spliced form, expressed primarily in the erythroid tissues, differs at the C-terminal end, and contains a cleavable hydrophobic peptide with a GPI-anchor site. It associates with the membranes through the phosphoinositide (PI) moieties added post-translationally.

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Storage	The protein is stored in PBS buffer at -20 °C. Repeated freeze-thaw cycles should be avoided.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.
GENE INFORMATION	
Gene Name	ACHE?acetylcholinesterase [?Homo sapiens?(human)]
Official Symbol	ACHE
Synonyms	ACHE; YT; ACEE; ARACHE; N-ACHE; acetylcholinesterase; Yt blood group; apoptosis-related acetylcholinesterase; EC 3.1.1.7
Gene ID	43
mRNA Refseq	NM_000665
Protein Refseq	NP_000656
MIM	100740
UniProt ID	P22303
Chromosome Location	7q22
Pathway	ATF-2 transcription factor network; Acetylcholine Synthesis; Biogenic Amine Synthesis
Function	acetylcholine binding; acetylcholinesterase activity; beta-amyloid binding

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