

Recombinant Full Length Human ACHE Protein, GST-tagged

Cat. No. ACHE-778HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ACHE full-length ORF (AAH94752.1, 1 a.a. - 640 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	640 amino acids
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. [provided by RefSeq, Jul 2008]

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Molecular Mass	61.2 kDa
AA Sequence	MGTEKESPEP DCQKQFQAAV SVIQNLPKNG SYRPSYEEML RFYSYYKQAT MGPCLVPRPG FWDPIGRYKW DAWNSLGKMS REEAMSAYIT EMKLVAQKVI DTVPLGEVAE DMFGYFEPLY QVIPDMRPP ETFLRRVTGW KEQVVNGDVG AVSEPPCLPK EPAPPSPESH SPRDLTSEVF CDSLEQLEPE LVWTEQRAAS GGKRDPRNSP VPPTKKEGLR GSPPGPQELD VWLLGTVRAL QESMQEVQAR VQSLESMPRP PEQRPQPRPS ARPWPLGLPG PALLFFLLWP FVVQWLFRMF RTQKR
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	ACHE acetylcholinesterase [Homo sapiens]
Official Symbol	ACHE
Synonyms	ACHE; acetylcholinesterase; acetylcholinesterase (YT blood group) , acetylcholinesterase (Yt blood group) , YT; Yt blood group; apoptosis-related acetylcholinesterase; YT; ACEE; ARACHE; N-ACHE
Gene ID	43

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mRNA Refseq	NM_000665
Protein Refseq	NP_000656
MIM	100740
UniProt ID	P22303

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