

ARG82127 ACHE Activity Assay Kit (Colorimetric)

Package: 100 tests
Store at: 4°C

Summary

Product Description	ARG82127 ACHE Activity Assay Kit (Colorimetric) can be used to measure ACHE activity in serum, plasma and blood.
Tested Reactivity	Hu, Ms, Rat, All
Tested Application	FuncSt
Target Name	ACHE
Conjugation Note	Read at 412 nm
Sensitivity	10 U/L
Detection Range	10 - 600 U/L
Sample Type	serum, plasma and blood
Sample Volume	10 µl
Alternate Names	ARACHE; Acetylcholinesterase; ACEE; EC 3.1.1.7; AChE; N-ACHE; YT

Application Instructions

Application Note	Please note that this kit does not include a microplate.
Assay Time	10 min

Properties

Form	Liquid
Storage instruction	Store the kit at 2-8°C. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ACHE
Gene Full Name	acetylcholinesterase (Yt blood group)
Background	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]

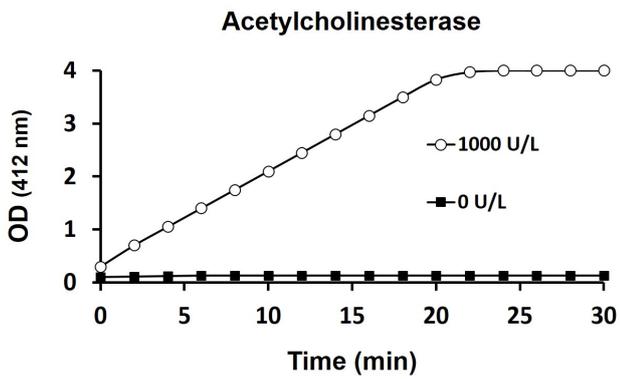
Function

Terminates signal transduction at the neuromuscular junction by rapid hydrolysis of the acetylcholine released into the synaptic cleft. Role in neuronal apoptosis. [UniProt]

Cellular Localization

Cell junction, synapse. Secreted. Cell membrane; Peripheral membrane protein. Isoform T: Nucleus. Note=Only observed in apoptotic nuclei. Isoform H: Cell membrane; Lipid-anchor, GPI-anchor; Extracellular side. [UniProt]

Images



ARG82127 Acetylcholinesterase Activity Assay Kit (Colorimetric) enzyme kinetics graph

Kinetics of 0 or 1000 U/L Acetylcholinesterase reaction, using ARG82127 Acetylcholinesterase Activity Assay Kit (Colorimetric).