CREATIVE BIOMART®
Assay Kit

Acetylcholinesterase Assay Kit

Product Information

Cat

Kit-2489

Cat.No. Kit-2489

Product Overview

ACETYLCHOLINESTERASE (EC 3.1.1.7, AChE), also known as RBC cholinesterase, is found primarily in the blood and neural synapses. Low serum cholinesterase activity may relate to exposure to insecticides or to one of a number of variant genotypes. AChE catalyzes the hydrolysis of the neurotransmitter acetylcholine into choline and acetic acid, a reaction necessary to allow a cholinergic neuron to return to its resting state after activation. Cholinesterase levels of cells and plasma are used as a guide in establishing safety precautions relative to exposure and contact, as well as a guide in determining the need for workers to be removed from areas of contact with the organic phosphate insecticides. Simple, direct and automation-ready procedures for measuring AChE activity are very desirable. Acetylcholinesterase Assay is based on an improved Ellman method,in which thiocholine produced by the action of acetylcholinesterase forms a yellow color with 5,5'-dithiobis(2-nitrobenzoic acid). The intensity of the product color, measured at 412 nm, is proportionate to the enzyme activity in the sample.

Storage

RT

Shipping

RT

Size

100 tests

Detection method OD412nm

Compatible Sample Types

Blood, serum, plasma etc

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Features & Benefits
Sensitive and accurate. Detection range 10 to 600 U/L AChE activity in 96-well plate assay. Convenient. The procedure involves adding a single working reagent, and reading the optical density at 2 min and 10 min at room temperature. High-throughput. Can be readily automated as a high-throughput 96-well plate assay for thousands of samples per day.
Assay time
10 min
Sensitivity
10 U/L

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