



Acetylcholine Assay Kit

Product Information

Cat.No.

Kit-0030

Product Overview

Acetylcholine Assay Kit is a quantitative colorimetric/fluorimetric acetylcholine determination.

Description

ACETYLCHOLINE is a neurotransmitter produced in acetylcholinergic neurons. It plays important roles in skeletal muscle movement, regulation of smooth and cardiac muscles, as well as in learning, memory and mood. Acetylcholine Assay Kit provides a simple, direct and high-throughput assay for measuring acetylcholine in biological samples. In this assay, acetylcholine is hydrolyzed by acetylcholinesterase to choline which is oxidized by choline oxidase to betaine and H₂O₂. The resulting H₂O₂ reacts with a specific dye to form a pink colored product. The color intensity at 570nm or fluorescence intensity (530/585 nm) is directly proportional to the acetylcholine concentration in the sample.

Applications

Assays: acetylcholine in biological samples such as serum, plasma, urine, saliva, milk, tissue, and cell culture. Drug Discovery/Pharmacology: effects of drugs on acetylcholine metabolism.

Usage

For research use only (RUO)

Storage

Store all components at -20°C. Shelf life of six months after receipt.

Kit Components

Assay Buffer 10 mL
ACHE Enzyme 120 µL
Enzyme Mix: Dried 1 vial
Dye Reagent 120 µL
Standard: 2 mM acetylcholine 400 µL

Detection method Colorimetric, Fluorometric

Compatible Sample Types



CREATIVE **BIOMART**[®]
Assay Kit

Acetylcholine Assay Kit

Cell Culture, Milk, Plasma, Saliva, Serum, Tissue, Urine

Features & Benefits

Use 20 μ L samples. Linear detection range: colorimetric assay 10 to 200 μ M, fluorimetric assay 0.4 to 10 μ M acetylcholine.

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