CREATIVE BIOMART®
Assay Kit

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 mLACHE Enzyme 120 μLEnzyme Mix: Dried 1 vailDye Reagent 120 μLStandard: 2 mM acetylcholine 400 μL

Detection method Colorimetric, Fluorometric

Compatible Sample Types

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

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Features & Benefits

Use 20 μL samples. Linear detection range: colorimetric assay 10 to 200 μM, fluorimetric assay 0.4 to 10 μM acetylcholine.

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