CREATIVE BIOMART®
Assay Kit

Choline Assay Kit

Product Information

Cat.No. Kit-0224

Product Overview

Choline Assay Kit is a quantitative colorimetric/fluorometric choline determination.

Description

CHOLINE and its metabolites play important roles in membrane structure integrity, cellular signaling and cholinergic neurotransmission. Aberrant regulation in choline metabolism has been associated with mental illness such as anxiety. Choline Assay Kit provides a simple, direct and high-throughput assay for measuring choline in biological samples. In this assay, free choline is oxidized by choline oxidase to betaine and H2O2 which 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 choline concentration in the sample.

Applications

Assays: choline in biological samples such as serum, plasma, urine, saliva, milk, tissue, and cell culture.Drug Discovery/Pharmacology: effects of drugs on choline 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 mLEnzyme Mix (Dried) 1 vialDye Reagent 120 µLStandard: 2 mM Choline 400 µL

Detection method Colorimetric, Fluorometric

Compatible Sample Types

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

Features & Benefits

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Use 20 µL samples. Linear detection range: colorimetric assay 1 to 100 µM, fluorimetric assay 0.2 to 10 µM choline

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