CREATIVE BIOMART®
Assay Kit

Choline/Acetylcholine Quantification Kit

Product Information

Cat.No. Kit-0226

Product Overview

Choline/Acetylcholine Quantification Kit is used for quantifying choline and acetylcholine by either a colorimetric or fluorometric method.

Description

Choline and acetylcholine play important roles in many biological processes. The Choline/Acetylcholine Quantification Kit provides a simple and sensitive means for quantifying Choline and Acetylcholine by either a colorimetric or fluorometric method. In the assay free choline is oxidized to betaine, via the intermediate betaine aldehyde. The reaction generates products which react with the Choline Probe to generate color (λ= 570 nm), and fluorescence (Ex/Em 535/587 nm). Acetylcholine can be converted to choline by addingacetylcholinesterase to the reaction. The kit can detect choline and acetylcholine (total choline – free choline) in various biological samples such as in blood, cells, culture media, fermentation media, etc. There is no need for pretreatment or purification of samples. The kit can detect 10 pmol~5 nmol of choline or acetylcholine.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store kit at -20°C. Warm the assay buffer to room temperature before use. Briefly centrifuge vials before opening. Read the entire protocol before performing the assay.

Kit Components

Choline Assay Buffer 25 mlCholine Probe* 200 μlCholine Enzyme Mix 1 VialAcetylcholinesterase 1 VialCholine Standard (5 µmol) 1 VialNote: *The fluorometric assay is ~10 times more sensitive than

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Choline/Acetylcholine Quantification Kit

the colorimetric assay. Use 0.4 µl of the probe per reaction to decrease background/increase detection sensitivity significantly.

Detection method	Colorimetric, Fluorometric

Compatible Sample Types

Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine

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