

Choline/Acetylcholine Assay Kit

Cat. No. Kit-0225 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Choline/Acetylcholine Assay 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 (570 nm), and fluorescence (Ex/Em 535/587 nm). Acetylcholine can be converted to choline by adding acetylcholinesterase 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.

Size

100 tests

Description

Choline and acetylcholine play important roles in many biological processes. Choline is an essential nutrient, commonly grouped with the B complex vitamins, that plays key roles in many biological processes. Choline is a precursor for the synthesis of acetylcholine (AChE), a critical neurotransmitter in both the peripheral and central nervous systems.

Applications

Functional Studies more details

Target Species

Reacts with: Mouse, Human; Predicted to work with: all Mammals

Storage

Store at -20°C.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Kit Components	Components: Identifier; Acetylcholinesterase: Blue; Choline Assay Buffer: WM; Choline Enzyme Mix: Green; Choline Probe (in DMSO): Red; Choline Standard (5 μ mol): Yellow
Compatible Sample Types	Cell culture supernatant, Urine, Serum, Plasma, Cell culture extracts, Other biological fluids, Tissue Extracts
Assay time	0h 40m
Sensitivity	>0.01 nmol/well

 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA