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 periferial 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.

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Kit Components	Components: Identifier; Acetylcholinesterase: Blue; Choline Assay Buffer: WM; Choline Enzyme Mix: Green; Choline Probe (in DMSO): Red; Choline Standard (5 μmol): 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

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