CREATIVE BIOMART®
Assay Kit

Sphingomyelin Fluorometric Assay Kit

Product Information

Cat.No. Kit-0798

Product Overview

Sphingomyelin Assay Kit (Fluorometric) provides the most sensitive method for detecting neutral SM activity or screening SM inhibitors. The kit uses AbRed Indicator as a fluorogenic probe to indirectly quantify the phosphocholine produced from the hydrolysis of sphingomyelin (SM) by sphingomyelinase (SMase). It can be used for measuring the amount of SM in blood, cell extracts or other solutions. The fluorescence intensity of AbRed Indicator is proportional to the formation of phosphocholine, therefore to the amount of SM. AbRed Indicator enables the assay readable by either a fluorescence reader or an absorbance reader. The kit is an optimized "mix and read" assay that can be performed in a convenient 96-well or 384-well microtiter-plate format and easily adapted to automation without a separation step.

Size

100 tests

Description

Sphingomyelin (SM) is largely found in the exoplasmic leaflet of the cell membrane, primarily in nervous tissue. It plays an important role in signal transduction. Sphingomyelin accumulates abnormally in Niemann-Pick disease and Abetalipoproteinemia.

Applications

Functional Studies more details

Target Species

Reacts with: Human; Predicted to work with: A wide range of mammals

Storage

Store at -20°C.

Kit Components

Components: 100 tests; AbRed Indicator: 1 vial; Assay Buffer: 1 x 5ml; DMSO: 1 x 200µl; Enzyme Mix: 1

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vial; SMase Reaction Buffer: 1 x 20ml; Sphingomyelin standard: 1 x 20µl; Sphingomyelinase: 1 vial

Compatible Sample Types
Cell culture extracts, Whole Blood
Sensitivity
1 µM

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