CREATIVE BIOMART®
Assay Kit

Sphingomyelinase Activity Fluorometric Assay Kit

Product Information

Cat

Kit-2279

Cat.No. Kit-2279

Product Overview

Sphingomyelinase (SMase) cleaves sphingomyelin to produce phosphocholine and ceramide. The activation of SMase leads to increased production of ceramide, which acts as a lipid second messenger that induces a variety of cell regulatory phenomena such as apoptosis, cell differentiation, cell proliferation and sterol homeostasis. SMase Fluorometric Assay Kit provides a simple and sensitive method for measuring neutral-SMase enzymatic activity using fluorescence (Ex/Em = 535/587 nm). Neutral sphingomyelinase (N-SMase) is a Mg2+ sensitive enzyme that can be activated by a host of physiologically relevant and structurally diverse molecules. In this assay, SMase converts sphingomyelin substrate to phosphocholine and ceramide, which is then further utilized to produce fluorescence. This high-throughput adaptable assay kit can detect sphingomyelinase activity as low as 10 μU/ml in a variety of samples.

Applications

Measurement of SMase activity in various tissues/cells extracts.

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

SMase Assay Buffer; SMase Probe (DMSO); SMase Substrate (Lyophilized); SMase Enzyme Mix I (Lyophilized); SMase Enzyme Mix II (Lyophilized); Choline Standard (Lyophilized); SMase Positive

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

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Control (Lyophilized); SMase Extraction Detergent

Detection method Fluorescence (Ex/Em535/587 nm)

Features & Benefits

Simple, rapid & convenient;
The assay can detect sphingomyleinase activity as low as 10 μU/ml in a variety of samples.

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