

Sphingomyelinase Activity Fluorometric Assay Kit

Cat. No. Kit-2279 **Lot. No.** (See product label)

SPECIFICATION

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 Control (Lyophilized); SMase Extraction Detergent

Detection method

Fluorescence (Ex/Em 535/587 nm)

 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



Features & Benefits

Simple, rapid & convenient;

The assay can detect sphingomyelinase activity as low as 10 μ U/ml in a variety of samples.

 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