

Sphingomyelinase Activity Fluorometric Assay Kit

Product Information

Cat

Kit-2279

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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 μ U/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

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(Lyophilized); SMase Enzyme Mix II (Lyophilized); Choline Standard (Lyophilized); SMase Positive Control (Lyophilized); SMase Extraction Detergent

Detection method Fluorescence (Ex/Em535/587 nm)

Features & Benefits

Simple, rapid & convenient;

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

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