CREATIVE BIOMART®
Assay Kit

Sphingomyelin Colorimetric Assay Kit

Product Information

Cat.No. Kit-0797

Product Overview

Sphingomyelin Assay Kit (Colorimetric) is used for measuring sphingomyelin using colorimetric methods.

Description

Sphingomyelin is an important structural lipid component of cell membranes and lipoproteins. Sphingomyelin has been implicated in the pathogenesis of several diseases; therefore a sensitive and reliable technique for its quantification is of considerable importance. Sphingomyelin Assay Kit (Colorimetric) provides a simple and sensitive method for quantifying sphingomyelin using colorimetry. In the assay, sphingomyelin is hydrolyzed into ceramide and phosphorylcholine by sphingomyelinase. Alkaline phosphatase (ALP) dephosphorylates phosphorylcholine to choline, which then reacts with Sphingomyelin Enzyme Mix to produce an intermediate.The intermediate reacts with a highly specific probe to generate color (OD 570 nm). The kit can detect sphingomyelin in various biological samples as low as 1 µM.

Applications

Sphingomyelin quantification in various biological samplesAnalysis of cell signaling pathway

Usage

For research use only (RUO)

Storage

Store kit at -20°C, protected from light. Warm SM Assay Buffer to room temperature before use. Read the entire protocol before performing the assay

Kit Components

SM Assay Buffer 100 mlOxiRed Probe 0.2 mlSphingomyelinase (Lyophilized) 1 vialALP Enzyme (Lyophilized) 1 vialSM Standard (5 mM) 50 μl

Detection method Colorimetric

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Compatible Sample Types

Biological samples, Cell Samples, Tissue Samples

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