CREATIVE BIOMART®
Assay Kit

Sphingomyelin Assay Kit

Product Information

Cat.No. Kit-0796

Product Overview

Sphingomyelin Assay Kit provides a method for quantifying sphingomyelin in plasma or serum.

Description

Sphingomyelin (ceramide phosphorylcholine) is an important lipid component of cell membranes and lipoproteins. It consists of a ceramide moiety linked via a phosphodiester bond to phosphorylcholine. Sphingomyelinases are a family of enzymes that can hydrolyze sphingomyelin into ceramide and phosphorylcholine. Ceramides have been implicated as key mediators in signaling pathways, with outcomes as diverse as cell proliferation, differentiation, growth arrest, and apoptosis. An inherited deficiency of acid sphingomyelinase activity results in the sphingomyelin storage disorder Niemann-Pick disease. This disease results in the accumulation of sphinogmyelin in cells, tissues, and fluids. Since sphingomyelin has been implicated in the pathogenesis of several diseases, including atherosclerosis, sensitive and reliable techniques for its quantification are of considerable importance.

Usage

For research use only (RUO)

Storage

This kit will perform as specified if stored at 4°C and used before the expiration date indicated on the outside of the box.

Kit Components

SM Buffer (10X) 1 vialSM Color Detector 2 vialsSM Enzyme Mixture 2 vialsSM Alkaline Phosphatase 1 vialSphingomyelinase 1 vialSphingomyelin Standard 1 vialSM Detergent Solution 1 vial96-Well Plate (Colorimetric Assay) 1 plate96-Well Cover Sheet 1 cover

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