Creative Enzymes®

Native Staphylococcus aureus Sphingomyelinase

Cat. No. NATE-0673

Lot. No. (See product label)

Introduction

Description Sphingomyelin phosphodiesterase is a hydrolase enzyme that is involved in sphingolipid metabolism reactions. SMase is a member of the DNase I superfamily of enzymes and is responsible for breaking sphingomyelin (SM) down into phosphocholine and ceramide. The activation of SMase has been suggested as a major route for the production of ceramide in response to cellular stresses.

Synonyms Sphingomyelin phosphodiesterase; EC 3.1.4.12; neutral sphingomyelinase; 9031-54-3; sphingomyelin cholinephosphohydrolase; sphingomyelinase; SMase

Product Information

Source Staphylococcus aureus

Form buffered aqueous glycerol solution; Solution in 50% glycerol containing 0.25 M phosphate buffer, pH 7.5

EC Number EC 3.1.4.12

CAS No. 9031-54-3

Activity 100-300 units/mg protein (Lowry)

Unit Definition One unit will hydrolyze 1.0 µmol of TNPAL-sphingomyelin per min at pH 7.4 at 37°C.

Storage and Shipping Information

Storage 2-8°C