

Native *Pseudomonas* sp. Sphingolipid ceramide N-deacylase

Cat. No. NATE-0896

Lot. No. (See product label)

Introduction

Description Sphingolipid ceramide N-deacylase (SCDase) is derived from *Pseudomonas* and hydrolyzes the N-acyl linkage between fatty acids and sphingosine bases in ceramides of various sphingolipids. The enzyme also catalyzes the reverse reaction and possesses transacylation activity. SCDase acts on various acidic and neutral glycosphingolipids and sphingomyelin; however, it exhibits low activity with ceramides.

Applications Hydrolysis of N-acyl linkages between fatty acids and sphingosine bases Sphingolipid hydrolysis

Synonyms SCDase; Sphingolipid ceramide N-deacylase

Product Information

Species *Pseudomonas* sp.

Source *Pseudomonas* sp.

Form Solution in 50 mM sodium acetate (pH 6.0) containing 0.1% Lubrol PX

Concentration 5 mU/μL

Optimum pH pH 5.0–6.0

Inhibitors Hg²⁺, Zn²⁺ and Cu²⁺

Unit Definition One unit is defined as the amount of enzyme required to catalyze the hydrolysis of 1 μmol of asialo GM1 per minute.

Storage and Shipping Information

Storage Store at -20°C until use. Store reconstituted solution in aliquots at -20°C. Avoid freeze-thaw.