

## 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** Hg<sup>2+</sup>, Zn<sup>2+</sup> and Cu<sup>2+</sup>

**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.