

## Native Pseudomonas sp. N-Acylhexosamine Oxidase

Cat. No. NATE-0469

Lot. No. (See product label)

### Introduction

**Description** In enzymology, a N-acylhexosamine oxidase (EC 1.1.3.29) is an enzyme that catalyzes the chemical reaction: N-acetyl-D-glucosamine + O<sub>2</sub> ⇌ N-acetyl-D-glucosamine + H<sub>2</sub>O<sub>2</sub>. Thus, the two substrates of this enzyme are N-acetyl-D-glucosamine and O<sub>2</sub>, whereas its two products are N-acetyl-D-glucosamine and H<sub>2</sub>O<sub>2</sub>. This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with oxygen as acceptor.

**Synonyms** N-acylhexosamine oxidase; EC 1.1.3.29; N-acyl-D-hexosamine oxidase; N-acyl-β-D-hexosamine:oxygen 1-oxidoreductase; N-acyl-D-hexosamine:oxygen 1-oxidoreductase

### Product Information

**Source** Pseudomonas sp.

**Form** Suspension in 80% saturated ammonium sulfate.

**EC Number** EC 1.1.3.29

**CAS No.** 121479-58-1

**Activity** > 20 units/mg protein

**Unit Definition** One unit will oxidize 1.0 μmole of N-acetyl-D-glucosamine to N-acetyl-D-glucosaminolactone per minute at pH 6.8 at 37°C.

### Storage and Shipping Information

**Storage** 2-8°C