

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 + O₂ ↔ N-acetyl-D-glucosamine + H₂O₂. Thus, the two substrates of this enzyme are N-acetyl-D-glucosamine and O₂, whereas its two products are N-acetyl-D-glucosamine and H₂O₂. 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