

## N-Acylmannosamine 1-Dehydrogenase from Pseudomonas sp., Recombinant

Cat. No. NATE-0470

Lot. No. (See product label)

## Introduction

**Description** In enzymology, a N-acylmannosamine 1-dehydrogenase (EC 1.1.1.233) is an

enzyme that catalyzes the chemical reaction:N-acyl-D-mannosamine + NAD+↔ N-acyl-D-mannosaminolactone + NADH + H+. Thus, the two substrates of this enzyme are N-acyl-D-mannosamine and NAD+, whereas its 3 products are N-acyl-D-mannosaminolactone, NADH, and H+. This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with NAD+

or NADP+ as acceptor.

Synonyms N-acylmannosamine 1-dehydrogenase; EC 1.1.1.233; N-acylmannosamine

dehydrogenase; N-acetyl-D-mannosamine dehydrogenase; N-acyl-D-mannosamine

dehydrogenase; N-acylmannosamine dehydrogenase; 117698-08-5

## **Product Information**

**Species** Pseudomonas sp.

**Source** E. coli

**Form** lyophilized powder; Powder also contains bovine albumin and sucrose.

**EC Number** EC 1.1.1.233

**CAS No.** 117698-08-5

**Molecular Weight** mol wt ~120 kDa (gel filtration)

**Activity** > 45 units/mg protein

**Buffer** 0.1 M Tris-HCl, pH 8.2: soluble 5 mg/mL

Unit Definition One unit will oxidize 1.0 μmole of N-acetyl-D-mannosamine to N-acetyl-D-

mannosaminolactone per minute at pH 8.2 at 37°C in the presence of NAD.

## Storage and Shipping Information

*Storage* −20°C

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