

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 $+\leftrightarrow$ 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 Iyophilized powder; Powder also contains bovine albumin and sucrose.

EC Number EC 1.1.1.233

CAS No. 117698-08-5

Molecular mol wt ~120 kDa (gel filtration)

Weight

Activity > 45 units/mg protein

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

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

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

Storage and Shipping Information

Storage −20°C