

Mannitol dehydrogenase from Pseudomona fluorescens, Recombinant

Cat. No. NATE-1114

Lot. No. (See product label)

Introduction

Description In enzymology, a mannitol 2-dehydrogenase (EC 1.1.1.67) is an enzyme that catalyzes the chemical

reaction:D-mannitol + NAD+↔ D-fructose + NADH + H+. Thus, the two substrates of this enzyme are D-mannitol and NAD+, whereas its 3 products are D-fructose, 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

One Unit is defined as the amount of enzyme required to produce one µmole of NADH from NAD+ in the

1/1

acceptor. This enzyme participates in fructose and mannose metabolism.

Synonyms mannitol dehydrogenase; D-mannitol dehydrogenase; mannitol dehydrogenase; mannitol 2-

dehydrogenase; EC 1.1.1.67; 9001-65-4

Product Information

Source Pseudomona fluorescens

Form Liquid

EC Number EC 1.1.1.67

CAS No. 9001-65-4

Molecular ~ 56.7kD

Weight

Unit

Activity ~ 40 U/mg protein

Definition presence of D-mannitol in Tris-HCl buffer at pH 8.6 and 25°C.

Storage and Shipping Information

Storage 4°C

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