Creative Enzymes®

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 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 Weight	~ 56.7kD
Activity	~ 40 U/mg protein
Unit Definition	One Unit is defined as the amount of enzyme required to produce one µmole of NADH from NAD+ in the presence of D-mannitol in Tris-HCl buffer at pH 8.6 and 25°C.

Storage and Shipping Information

Storage	4°C