Creative Enzymes®

myo-Inositol dehydrogenase from Bacillus subtilis, Recombinant

Cat. No. NATE-1100

Lot. No. (See product label)

Introduction

Description	In enzymology, an inositol 2-dehydrogenase (EC 1.1.1.18) is an enzyme that catalyzes the chemical reaction: myo-inositol + NAD+↔ 2,4,6/3,5-pentahydroxycyclohexanone + NADH + H+. Thus, the two substrates of this enzyme are myo-inositol and NAD+, whereas its 3 products are 2,4,6/3,5 pentahydroxycyclohexanone, 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 inositol metabolism and inositol phosphate metabolism.
Synonyms	myo-inositol 2-dehydrogenase; myo-inositol:NAD+ oxidoreductase; inositol dehydrogenase; myo-inositol dehydrogenase; EC 1.1.1.18; 9028-25-5

Product Information

Source	Bacillus subtilis
Form	Liquid
EC Number	EC 1.1.1.18
CAS No.	9028-25-5
Molecular Weight	~ 39kD
Activity	~ 80 U/mg protein
Unit Definition	One Unit is defined as the amount of enzyme required to produce one µmole of scyllo-inosose and NADH from myo-inositol and NAD+ per minute in Glycylglycine buffer at pH 9.6 and 25°C.

Storage and Shipping Information

Storage	4°C