

## 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

*lar* ∼ 39kD

Weight

Definition

Activity ~ 80 U/mg protein

**Unit** One Un

One Unit is defined as the amount of enzyme required to produce one µmole of scyllo-inosose and NADH

1/1

from myo-inositol and NAD+ per minute in Glycylglycine buffer at pH 9.6 and 25°C.

## Storage and Shipping Information

**Storage** 4°C

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