

(R)-dehydropantoate dehydrogenase

Cat. No. EXWM-1140

Lot. No. (See product label)

Introduction

Description

This enzyme belongs to the family of oxidoreductases, specifically those acting on the aldehyde or oxo group of donor with NAD⁺ or NADP⁺ as acceptor. The systematic name of this enzyme class is (R)-4-dehydropantoate:NAD⁺ 4-oxidoreductase. Other names in common use include D-aldopantoate dehydrogenase, D-2-hydroxy-3,3-dimethyl-3-formylpropionate:diphosphopyridine, and nucleotide (DPN⁺) oxidoreductase. This enzyme participates in pantothenate and coa biosynthesis.

Synonyms

D-aldopantoate dehydrogenase; D-2-hydroxy-3,3-dimethyl-3-formylpropionate:diphosphopyridine nucleotide (DPN⁺) oxidoreductase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.2.1.33

CAS No.

37250-96-7

Reaction

(R)-4-dehydropantoate + NAD⁺ + H₂O = (R)-3,3-dimethylmalate + NADH + 2 H⁺

Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.