

3-isopropylmalate dehydrogenase

Cat. No. EXWM-0369

Lot. No. (See product label)

Introduction

Description

The product decarboxylates spontaneously to yield 4-methyl-2-oxopentanoate.

Synonyms

β -isopropylmalic enzyme; β -isopropylmalate dehydrogenase; threo-Ds-3-isopropylmalate dehydrogenase; 3-carboxy-2-hydroxy-4-methylpentanoate:NAD+ oxidoreductase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.1.1.85

CAS No.

9030-97-1

Reaction

(2R,3S)-3-isopropylmalate + NAD⁺ = 4-methyl-2-oxopentanoate + CO₂ + NADH + H⁺ (overall reaction); (1a) (2R,3S)-3-isopropylmalate + NAD⁺ = (2S)-2-isopropyl-3-oxosuccinate + NADH + H⁺; (1b) (2S)-2-isopropyl-3-oxosuccinate = 4-methyl-2-oxopentanoate + CO₂ (spontaneous)

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.