Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.