Creative Enzymes®

2-methylcitrate dehydratase (2-methyl-trans-aconitate forming)

Cat. No. EXWM-4957

Lot. No. (See product label)

Introduction

Description	Catalyses the dehydration of (2S,3S)-2-methylcitrate, forming the trans isomer of 2-methyl-aconitate (unlike EC 4.2.1.79, which forms only the cis isomer). Part of a propionate degradation pathway. The enzyme from Shewanella oneidensis can also accept citrate and cis-aconitate, but activity with (2S,3S)-2-methylcitrate was approximately 2.5-fold higher. 2-methylisocitrate and isocitrate were not substrates. An iron-sulfur protein.

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.2.1.117
Reaction	(2S,3S)-2-methylcitrate = 2-methyl-trans-aconitate + H2O
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 ℃.