Creative Enzymes®

(R)-citramalate synthase

Cat. No. EXWM-2124

Lot. No. (See product label)

Introduction

Description	One of the enzymes involved in a novel pyruvate pathway for isoleucine biosynthesis that is found in some, mainly archaeal, bacteria. The enzyme can be inhibited by isoleucine, the end-product of the pathway, but not by leucine. The enzyme is highly specific for pyruvate as substrate, as the 2-oxo acids 3-methyl-2-oxobutanoate, 2-oxobutanoate, 4-methyl-2-oxopentanoate, 2-oxohexanoate and 2-oxoglutarate cannot act as substrate.
Synonyms	CimA

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.3.1.182
Reaction	acetyl-CoA + pyruvate + H2O = CoA + (2R)-2-hydroxy-2-methylbutanedioate
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 ℃.