Creative Enzymes®

crotonyl-CoA carboxylase/reductase

Cat. No. EXWM-1354

Lot. No. (See product label)

Introduction

Description	The reaction is catalysed in the reverse direction. This enzyme, isolated from the bacterium Rhodobacter sphaeroides, catalyses (E)-but-2-enoyl-CoA-dependent oxidation of NADPH in the presence of CO2. When CO2 is absent, the enzyme catalyses the reduction of (E)-but-2-enoyl-CoA to butanoyl-CoA, but with only 10% of maximal activity (relative to (E)-but-2-enoyl-CoA carboxylation).
Synonyms	CCR; crotonyl-CoA reductase (carboxylating)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.3.1.85
Reaction	(2S)-ethylmalonyl-CoA + NADP+ = (E)-but-2-enoyl-CoA + CO2 + NADPH + 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.