

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