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 ℃.