

## 2-oxopropyl-CoM reductase (carboxylating)

Cat. No. EXWM-1649

Lot. No. (See product label)

### Introduction

#### Description

Also acts on thioethers longer in chain length on the oxo side, e.g. 2-oxobutyl-CoM, but this portion must be attached to CoM (2-mercaptoethanesulfonate); no CoM analogs will substitute. This enzyme forms component II of a four-component enzyme system {comprising EC 4.4.1.23 (2-hydroxypropyl-CoM lyase; component I), EC 1.8.1.5 [2-oxopropyl-CoM reductase (carboxylating); component II], EC 1.1.1.268 [2-(R)-hydroxypropyl-CoM dehydrogenase; component III] and EC 1.1.1.269 [2-(S)-hydroxypropyl-CoM dehydrogenase; component IV]} that is involved in epoxyalkane carboxylation in *Xanthobacter* sp. strain Py2.

#### Synonyms

NADPH:2-(2-ketopropylthio)ethanesulfonate oxidoreductase/carboxylase; NADPH:2-ketopropyl-coenzyme M oxidoreductase/carboxylase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.8.1.5

#### CAS No.

244301-63-1

#### Reaction

2-mercaptoethanesulfonate + acetoacetate + NADP<sup>+</sup> = 2-(2-oxopropylthio)ethanesulfonate + CO<sub>2</sub> + NADPH

#### 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.