

## 2-methylcitrate synthase

Cat. No. EXWM-2321

Lot. No. (See product label)

### Introduction

#### Description

The enzyme acts on acetyl-CoA, propanoyl-CoA, butanoyl-CoA and pentanoyl-CoA. The relative rate of condensation of acetyl-CoA and oxaloacetate is 140% of that of propanoyl-CoA and oxaloacetate, but the enzyme is distinct from EC 2.3.3.1, citrate (Si)-synthase. Oxaloacetate cannot be replaced by glyoxylate, pyruvate or 2-oxoglutarate.

#### Synonyms

2-methylcitrate oxaloacetate-lyase; MCS; methylcitrate synthase; methylcitrate synthetase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.3.3.5

#### CAS No.

57827-78-8

#### Reaction

propanoyl-CoA + H<sub>2</sub>O + oxaloacetate = (2S,3S)-2-hydroxybutane-1,2,3-tricarboxylate + CoA

#### 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.