

## malonate-semialdehyde dehydrogenase (acetylating)

Cat. No. EXWM-1123

Lot. No. (See product label)

### Introduction

#### Description

This enzyme belongs to the family of oxidoreductases, specifically those acting on the aldehyde or oxo group of donor with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor. The systematic name of this enzyme class is 3-oxopropanoate:NAD(P)<sup>+</sup> oxidoreductase (decarboxylating, CoA-acetylating). This enzyme is also called malonic semialdehyde oxidative decarboxylase. This enzyme participates in 4 metabolic pathways: inositol metabolism, alanine and aspartate metabolism, beta-alanine metabolism, and propanoate metabolism.

#### Synonyms

malonic semialdehyde oxidative decarboxylase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.2.1.18

#### CAS No.

9028-97-1

#### Reaction

3-oxopropanoate + CoA + NAD(P)<sup>+</sup> = acetyl-CoA + CO<sub>2</sub> + NAD(P)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.