

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⁺ or NADP⁺ as acceptor. The systematic name of this enzyme class is 3-oxopropanoate:NAD(P)⁺ 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)⁺ = acetyl-CoA + CO₂ + 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.