

malate synthase

Cat. No. EXWM-2325

Lot. No. (See product label)

Introduction

Description

The enzyme catalyses the irreversible condensation of acetyl-CoA with glyoxylate to form (S)-malate. Among other functions, the enzyme participates in the glyoxylate cycle, a modified version of the TCA cycle that bypasses steps that lead to a loss of CO₂.

Synonyms

L-malate glyoxylate-lyase (CoA-acetylating); glyoxylate transacetylase; glyoxylate transacetase; glyoxylic transacetase; malate condensing enzyme; malate synthetase; malic synthetase; malic-condensing enzyme; acetyl-CoA:glyoxylate C-acetyltransferase (thioester-hydrolysing, carboxymethyl-forming)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.3.3.9

CAS No.

9013-48-3

Reaction

acetyl-CoA + glyoxylate + H₂O = (S)-malate + 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.