

malate dehydrogenase (oxaloacetate-decarboxylating) (NADP+)

Cat. No. EXWM-0321

Lot. No. (See product label)

Introduction

Description

The enzyme catalyses the oxidative decarboxylation of (S)-malate in the presence of NADP+ and divalent metal ions, and the decarboxylation of oxaloacetate. cf. EC 1.1.1.38, malate dehydrogenase (oxaloacetate-decarboxylating), and EC 1.1.1.39, malate dehydrogenase (decarboxylating).

Synonyms

malic' enzyme (ambiguous); pyruvic-malic carboxylase (ambiguous); malate dehydrogenase (decarboxylating, NADP+); NADP+-linked decarboxylating malic enzyme; NADP+-malic enzyme; NADP+-specific malic enzyme; NADP+-specific malate dehydrogenase; malate dehydrogenase (NADP+, decarboxylating); L-malate:NADP+ oxidoreductase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.1.1.40

CAS No.

9028-47-1

Reaction

(1) (S)-malate + NADP+ = pyruvate + CO₂ + NADPH; (2) oxaloacetate = pyruvate + CO₂

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.