

methylenetetrahydrofolate reductase (ferredoxin)

Cat. No. EXWM-1558

Lot. No. (See product label)

Introduction

Description

An iron-sulfur flavoprotein that also contains zinc. The enzyme from *Clostridium formicoaceticum* catalyses the reduction of methylene blue, menadione, benzyl viologen, rubredoxin or FAD with 5-methyltetrahydrofolate and the oxidation of reduced ferredoxin or FADH₂ with 5,10-methylenetetrahydrofolate. However, unlike EC 1.5.1.20, methylenetetrahydrofolate reductase [NAD(P)H], there is no activity with NAD(P)H.

Synonyms

5,10-methylenetetrahydrofolate reductase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.5.7.1

Reaction

5-methyltetrahydrofolate + 2 oxidized ferredoxin = 5,10-methylenetetrahydrofolate + 2 reduced ferredoxin + 2 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.