

5-methyltetrahydrosarcinapterin:corrinoid/iron-sulfur protein Co-methyltransferase

Cat. No. EXWM-1848

Lot. No. (See product label)

Introduction

Description

Catalyses the transfer of a methyl group from the cobamide cofactor of a corrinoid/Fe-S protein to the N5 group of tetrahydrosarcinapterin. Forms, together with EC 1.2.7.4, carbon-monoxide dehydrogenase (ferredoxin) and EC 2.3.1.169, CO-methylating acetyl-CoA synthase, the acetyl-CoA decarbonylase/synthase complex that catalyses the demethylation of acetyl-CoA in a reaction that also forms CO₂. This reaction is a key step in methanogenesis from acetate.

Synonyms

cdhD (gene name); cdhE (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.1.1.245

Reaction

a [methyl-Co(III) corrinoid Fe-S protein] + tetrahydrosarcinapterin = a [Co(I) corrinoid Fe-S protein] + 5-methyltetrahydrosarcinapterin

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.