

phosphomethylpyrimidine synthase

Cat. No. EXWM-4931

Lot. No. (See product label)

Introduction

Description

Binds a [4Fe-4S] cluster that is coordinated by 3 cysteines and an exchangeable S-adenosyl-L-methionine molecule. The first stage of catalysis is reduction of the S-adenosyl-L-methionine to produce L-methionine and a 5'-deoxyadenosin-5'-yl radical that is crucial for the conversion of the substrate. Part of the pathway for thiamine biosynthesis.

Synonyms

thiC (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 4.1.99.17

Reaction

5-amino-1-(5-phospho-D-ribosyl)imidazole + S-adenosyl-L-methionine = 4-amino-2-methyl-5-phosphomethylpyrimidine + 5'-deoxyadenosine + L-methionine + formate + CO

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.