

[methionine synthase] reductase

Cat. No. EXWM-1073

Lot. No. (See product label)

Introduction

Description In humans, the enzyme is a flavoprotein containing FAD and FMN. The substrate of the enzyme is the inactivated [Co(II)] form of EC 2.1.1.13, methionine synthase. Electrons are transferred from NADPH to FAD to FMN. Defects in this enzyme lead to hereditary hyperhomocysteinemia.

Synonyms methionine synthase cob(II)alamin reductase (methylating); methionine synthase reductase; [methionine synthase]-cobalamin methyltransferase (cob(II)alamin reducing)

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.16.1.8

CAS No. 207004-87-3

Reaction $2 \text{ [methionine synthase]-methylcob(I)alamin} + 2 \text{ S-adenosylhomocysteine} + \text{NADP}^+ = 2 \text{ [methionine synthase]-cob(II)alamin} + \text{NADPH} + \text{H}^+ + 2 \text{ S-adenosyl-L-methionine}$

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.