

[formate-C-acetyltransferase]-activating enzyme

Cat. No. EXWM-1693

Lot. No. (See product label)

Introduction

Description

An iron-sulfur protein. A single glycine residue in EC 2.3.1.54, formate C-acetyltransferase, is oxidized to the corresponding radical by transfer of H from its CH₂ to AdoMet with concomitant cleavage of the latter. The reaction requires Fe²⁺. The first stage is reduction of the AdoMet to give methionine and the 5'-deoxyadenosin-5'-yl radical, which then abstracts a hydrogen radical from the glycine residue.

Synonyms

PFL activase; PFL-glycine:S-adenosyl-L-methionine H transferase (flavodoxin-oxidizing, S-adenosyl-L-methionine-cleaving); formate acetyltransferase activating enzyme; formate acetyltransferase-glycine dihydroflavodoxin:S-adenosyl-L-methionine oxidoreductase (S-adenosyl-L-methionine cleaving)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.97.1.4

CAS No.

206367-15-9

Reaction

S-adenosyl-L-methionine + dihydroflavodoxin + [formate C-acetyltransferase]-glycine = 5'-deoxyadenosine + L-methionine + flavodoxin semiquinone + [formate C-acetyltransferase]-glycin-2-yl radical

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.