Creative Enzymes®

2-iminoacetate synthase

Cat. No. EXWM-4932

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 methionine and a 5-deoxyadenosin-5-yl radical that is crucial for the conversion of the substrate. The reductant is assumed to be NADPH, which is provided by a flavoprotein:NADPH oxidoreductase system. Part of the pathway for thiamine biosynthesis.
Synonyms	thiH (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.1.99.19
Reaction	L-tyrosine + S-adenosyl-L-methionine + NADPH = 2-iminoacetate + 4-methylphenol + 5'-deoxyadenosine + L-methionine + NADP+ + 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.