Creative Enzymes®

7-carboxy-7-deazaguanine synthase

Cat. No. EXWM-5310

Lot. No. (See product label)

Introduction

Description	Requires Mg2+. The enzyme is a member of the superfamily of S-adenosyl-L-methionine-dependent radical (radical AdoMet) enzymes. Binds a [4Fe-4S] cluster that is coordinated by 3 cysteines and an exchangeable S-adenosyl-L-methionine molecule. The S-adenosyl-L-methionine is catalytic as it is regenerated at the end of the reaction. The reaction is part of the biosynthesis pathway of queuosine.
Synonyms	7-carboxy-7-carbaguanine synthase; queE (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.3.99.3
Reaction	6-carboxy-5,6,7,8-tetrahydropterin = 7-carboxy-7-carbaguanine + NH3
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 ℃.