

## 7-carboxy-7-deazaguanine synthase

Cat. No. EXWM-5310

Lot. No. (See product label)

### Introduction

#### Description

Requires Mg<sup>2+</sup>. 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 + NH<sub>3</sub>

#### 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.