

## 2-(3-amino-3-carboxypropyl)histidine synthase

Cat. No. EXWM-2724

Lot. No. (See product label)

### Introduction

#### Description

A [4Fe-4S] enzyme that modifies a histidine residue of the translation elongation factor 2 (EF2) via a 3-amino-3-carboxypropyl radical. The enzyme is present in archae and eukaryotes but not in eubacteria. The relevant histidine of EF2 is His715 in mammals, His699 in yeast and His600 in *Pyrococcus horikoshii*. Part of diphthamide biosynthesis.

#### Synonyms

Dph2

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.5.1.108

#### Reaction

S-adenosyl-L-methionine + L-histidine-[translation elongation factor 2] = S-methyl-5'-thioadenosine + 2-[(3S)-3-amino-3-carboxypropyl]-L-histidine-[translation elongation factor 2]

#### 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.