Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.