Creative Enzymes®

tRNAPhe 7-[(3-amino-3-carboxypropyl)-4-demethylwyosine37-N4]-methyltransferase

Cat. No. EXWM-1889

Lot. No. (See product label)

Introduction

Description	The enzyme is involved in the biosynthesis of hypermodified tricyclic bases found at position 37 of certain tRNAs. These modifications are important for translational reading-frame maintenance. The enzyme is found in all eukaryotes and in some archaea, but not in bacteria. The eukaryotic enzyme is involved in the biosynthesis of wybutosine.
Synonyms	TYW3 (gene name); tRNA-yW synthesizing enzyme-3

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.1.1.282
Reaction	S-adenosyl-L-methionine + 7-[(3S)-(3-amino-3-carboxypropyl)]-4-demethylwyosine37 in tRNAPhe = S-adenosyl-L-homocysteine + 7-[(3S)-(3-amino-3-carboxypropyl)]wyosine37 in tRNAPhe
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 ℃.