Creative Enzymes®

tRNAPhe (4-demethylwyosine37-C7) aminocarboxypropyltransferase

Cat. No. EXWM-2730

Lot. No. (See product label)

Introduction

Description	The enzyme, which is found in all eukaryotes and in the majority of Euryarchaeota (but not in the Crenarchaeota), is involved in the hypermodification of the guanine nucleoside at position 37 of tRNA leading to formation of assorted wye bases. This modification is essential for translational reading-frame maintenance. The eukaryotic enzyme is involved in biosynthesis of the tricyclic base wybutosine, which is found only in tRNAPhe.
Synonyms	TYW2; tRNA-yW synthesizing enzyme-2; TRM12 (gene name); taw2 (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.5.1.114
Reaction	S-adenosyl-L-methionine + 4-demethylwyosine37 in tRNAPhe = S-methyl-5'-thioadenosine + 7-[(3S)-3-amino-3-carboxypropyl]-4-demethylwyosine37 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 ℃.