

## 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.