

## tRNA 4-demethylwyosine synthase (AdoMet-dependent)

Cat. No. EXWM-4921

Lot. No. (See product label)

### Introduction

**Description** This enzyme, which is a member of the superfamily of S-adenosyl-L-methionine-dependent radical (radical AdoMet) enzymes, binds two [4Fe-4S] clusters. Carbons C2 and C3 from pyruvate are incorporated into 4-demethylwyosine. The enzyme is found in eukaryotes where it is part of the pathway for wybutosine synthesis, and in archaea, where it is involved in the biosynthesis of archaeal wye bases, such as wyosine, isowyosine, and methylwyosine.

**Synonyms** TYW1

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 4.1.3.44

**Reaction** N1-methylguanine<sup>37</sup> in tRNAPhe + pyruvate + S-adenosyl-L-methionine = 4-demethylwyosine<sup>37</sup> in tRNAPhe + L-methionine + 5'-deoxyadenosine + CO<sub>2</sub> + H<sub>2</sub>O

**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.