

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-methylguanine37 in tRNAPhe + pyruvate + S-adenosyl-L-methionine = 4- demethylwyosine37 in tRNAPhe + L-methionine + 5'-deoxyadenosine + CO2 + H2O
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.