

## methylenetetrahydrofolate-tRNA-(uracil54-C5)-methyltransferase (FADH2-oxidizing)

Cat. No. EXWM-1975

Lot. No. (See product label)

## Introduction

**Description** Up to 25% of the bases in mature tRNA are post-translationally modified or hypermodified. One almost

universal post-translational modification is the conversion of U54 into ribothymidine in the  $T\psi C$  loop, and this modification is found in most species studied to date. Unlike this enzyme, which uses 5,10-methylenetetrahydrofolate and FADH2 to supply the atoms for methylation of U54, EC 2.1.1.35, tRNA

(uracil54-C5)-methyltransferase, uses S-adenosyl-L-methionine.

**Synonyms** folate-dependent ribothymidyl synthase; methylenetetrahydrofolate-transfer ribonucleate uracil 5-

methyltransferase; 5,10-methylenetetrahydrofolate:tRNA-UψC (uracil-5-)-methyl-transferase; 5,10-methylenetetrahydrofolate:tRNA (uracil-5-)-methyl-transferase; TrmFO; folate/FAD-dependent tRNA T54

methyltransferase

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 2.1.1.74

**CAS No.** 56831-74-4

**Reaction** 5,10-methylenetetrahydrofolate + uracil54 in tRNA + FADH2 = tetrahydrofolate + 5-methyluracil54 in

trna + fad

**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

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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