

thymidylate synthase

Cat. No. EXWM-1949

Lot. No. (See product label)

Introduction

Description

Thymidylate synthetase (EC 2.1.1.45) is an enzyme that catalyzes the conversion of deoxyuridine monophosphate (dUMP) to deoxythymidine monophosphate (dTMP). Thymidine is one of the nucleotides in DNA. With inhibition of TS, an imbalance of deoxynucleotides and increased levels of dUMP arise. Both cause DNA damage.

Synonyms

dTMP synthase; thymidylate synthetase; methylenetetrahydrofolate:dUMP C-methyltransferase; TMP synthetase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.1.1.45

CAS No.

9031-61-2

Reaction

5,10-methylenetetrahydrofolate + dUMP = dihydrofolate + dTMP

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.