Creative Enzymes®

Prokaryotic Thymidylate kinase, Recombinant

Cat. No. NATE-0918

Lot. No. (See product label)

Introduction

Description	In enzymology, a dTMP kinase (EC 2.7.4.9) is an enzyme that catalyzes the chemical reaction: ATP + dTMP rightleftharpoons ADP + dTDP. Thus, the two substrates of this enzyme are ATP and dTMP, whereas its two products are ADP and dTDP. This enzyme belongs to the family of transferases, specifically those transferring phosphorus-containing groups (phosphotransferases) with a phosphate group as acceptor. This enzyme participates in pyrimidine metabolism.
Synonyms	dTMP kinase; EC 2.7.4.9; ATP:dTMP phosphotransferase; thymidine monophosphate kinase; thymidylate kinase; thymidylate monophosphate kinase; thymidylic acid kinase; thymidylic kinase; deoxythymidine 5'-monophosphate kinase; TMPK; thymidine 5'-monophosphate kinase

Product Information

Source	Microorganism
Form	Liquid
EC Number	EC 2.7.4.9
CAS No.	9014-43-1
Molecular Weight	~ 25.4kD
Activity	~ 4 U/mg protein
Unit Definition	One Unit is defined as the amount of enzyme required to form one μmole of TDP from TMP and ATP per minute in the presence of NADH in TEA buffer at pH 7.6 and 25°C.

Storage and Shipping Information

Storage	-20°C