

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 → 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 μ mole 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