

## 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  $\mu$ 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