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## Product Data Sheet

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Product Name: DTYMK Human  
 Cat. No.: GP22482  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Deoxythymidylate Kinase (Thymidylate Kinase); DTMP Kinase; CDC8; TMPK; TYMK; Thymidylate (DTMP) Kinase; EC 2.7.4.9; PP3731; Thymidylate kinase.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSHMAARRGALIV LEGVDRAGKS TQSRKLVEAL CAAGHRAELL RPPERSTEIG KLLSSYLQKK SDVEDHSVHLLFSANRWEQV PLIKEKLSQG VTLVVDRYAF SGVAFTGAKE NFSLDWCKQP DVGLPKPDLV LFLQLQLADAAKRGAFGHER YENGAFAQERA LRCFHQLMKD TTLNWKMVDA SKSIEAVHED IRVLEDAIR TATEKPLGEL WK.		
Formulation	DTYMK protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 20% glycerol, 2mM DTT and 0.1M NaCl.		

### Introduction

Thymidylate kinase (DTYMK) is involved in pyrimidine metabolism. Specifically, DTYMK catalyzes the ATP-dependent conversion of dTMP (deoxythymidine monophosphate) to dTDP (deoxythymidine diphosphate), which then acts as one of the 4 nucleotides in DNA. Through its role in the catalytic creation of dTDP, DTYMK has an imperative role in the pathway of DNA synthesis and is assumed to be involved in cell cycle progression and cell growth.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

DTYMK Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide

**Caution: Product has not been fully validated for medical applications. For research use only.**

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chain containing 232 amino acids (1-212 a.a) and having a molecular mass of 26kDa. DTYMK is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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