

## 32-2998: DTYMK Recombinant Protein

**Alternative Name :** Deoxythymidylate Kinase (Thymidylate Kinase),DTMP Kinase,CDC8,TMPK,TYMK,Thymidylate (DTMP) Kinase,EC 2.7.4.9,PP3731,Thymidylate kinase.

### Description

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

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 95% as determined by SDS-PAGE.  
**Content :** DTYMK protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 20% glycerol, 2mM DTT and 0.1M NaCl.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SSGLVPRGSHMAARRGALIV LEGVDRAGKS TQSRKLVEAL CAAGHRAELL RFPERSTEIG KLLSSYLQKK SDVEDHSVHLLFSANRWEQV PLIKEKLSQG VTLVVDRYAF SGVAFTGAKE NFSLDWCKQP DVGLPKPDLV LFLQLLADAAKRGAFGHER YENGAQERA LRCFHQLMKD TTLNWKMVDA SKSIEAVHED IRVLSDAIR TATEKPLGEL WK.

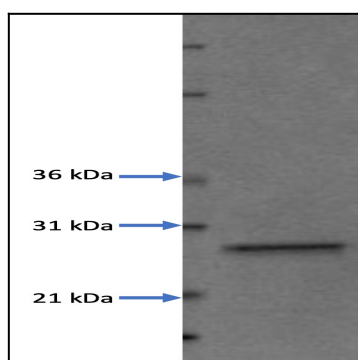


Fig. 1: Coomassie gel staining. 2µg of DTYMK (Cat# 32-2998) was loaded.