

Recombinant Human DTYMK, His-tagged

Cat. No. DTYMK-3562H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DTYMK protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-212aa).
Species	Human
Source	E.coli
Description	DTYMK is also known as thymidylate kinase family and is involved in pyrimidine metabolism. Specifically, DTYMK catalyzes the ATP-dependent conversion of dTMP (deoxythymidine monophosphate) to dTDP (deoxythymidine diphosphate), which then functions as one of the four nucleotides in DNA. Via its role in the catalytic creation of dTDP, DTYMK plays an important role in the pathway of DNA synthesis and is thought to be involved in cell cycle progression and cell growth.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 20% glycerol, 2mM DTT, 0.1M NaCl.
Molecular Mass	26 kDa (232aa), confirmed by MALDI-TOF
Purity	> 95 % by SDS-PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MAARRGALIV LEGVDRAGKS TQSRKLVEAL CAAGHRAELL RFPERSTEIG KLLSSYLQKK SDVEDHSVHL LFSANRWEQV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PLIKEKLSQG VTLVVDYAF SGVAFTGAKE NFSLDWCKQP DVGLPKPDLV
LFLQLQLADA AKRGAFGHER YENGAFQERA LRCFHQLMKD TTLNWKMVDA
SKSIEAVHED IRVLSEDAIR TATEKPLGEL WK

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

DTYMK deoxythymidylate kinase (thymidylate kinase) [Homo sapiens]

Official Symbol

DTYMK

Synonyms

DTYMK; deoxythymidylate kinase (thymidylate kinase); CDC8; TYMK; TMPK; PP3731; FLJ44192; dTMP kinase; EC 2.7.4.9; Thymidylate kinase; thymidylate kinase; thymidylate (dTMP) kinase; OTTHUMP00000200146; OTTHUMP00000200145; MGC198617

Gene ID

1841

mRNA Refseq

NM_012145

Protein Refseq

NP_036277

MIM

188345

UniProt ID

P23919

**Chromosome
Location**

2q37.3

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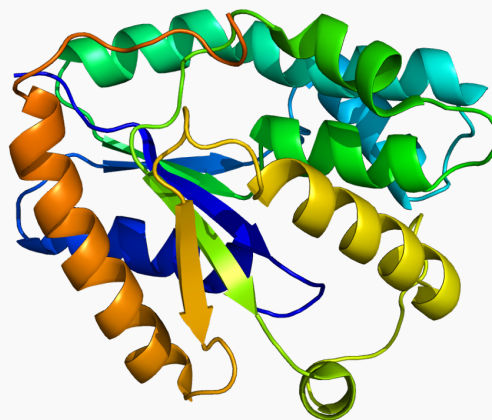
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Function

ATP binding; kinase activity; nucleoside phosphate kinase activity; nucleotide binding; thymidylate kinase activity; transferase activity

PDBrendering based
on 1e2d.



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