

Recombinant human DTYMK protein

Catalog Number: ATGP1114

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-212aa

UniProt No.

P23919

NCBI Accession No.

NP_036277.2

Alternative Names

Thymidylate kinase, CDC8, FLJ44192, MGC198617, PP3731, TMPK, TYMK

PRODUCT SPECIFICATION

Molecular Weight

26 kDa (232aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 2mM DTT, 0.1M NaCl

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human DTYMK protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MAARRGALIV LEGVDRAKGS TQSRKLVEAL CAAGHRAELL RFPERSTEIG
KLLSSYLQKK SDVEDHSVHL LFSANRWEQV PLIKEKLSQG VTLVVDRYAF SGVAFTGAKE NFSLDWCKQP DVGLPKPDLV
LFLQLQLADA AKRGAFGHER YENGAFQERA LRCFHQLMKD TTLNWKMVDA SKSIEAVHED IRVLSDAIR TATEKPLGEL WK

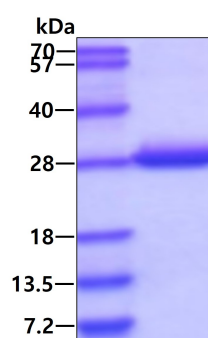
General References

Cummins RR., et al. (1980) Cancer Res. 40(4):1235-9.

Su JY., et al. (1991) Nucleic Acids Res. 19(4):823-7.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.