

DTYMK recombinant protein

DTYMK, 1-212aa, Human, His tag, E Coli

CATALOG # AAA48738	HOST E Coli	APPLICATIONS SDS-Page
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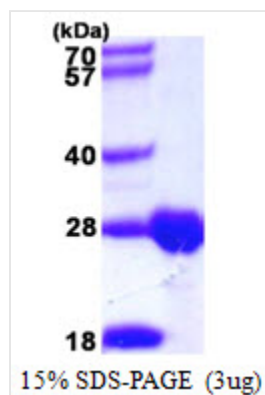
PRODUCT SYNONYMS

DTYMK; 1-212aa; Human; His tag; E Coli; Thymidylate kinase; CDC8; FLJ44192; MGC198617; PP3731; TMPK; TYMK; DTYMK recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 20% glycerol, 2mM DTT, 0.1M NaCl
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MAARRGALIV LEGVDRAGKS TQSRKLVEAL CAAGHRAELL RFPERSTEIG KLLSSYLQKK SDVEDHSVHL LFSANRWEQV PLIKEKLSQG VTLVVDYAF SGVAFTGAKE NFSLDWCKQP DVGLPKPDLV LFLQLQLADA AKRGAFGHER YENGAFQERA LRCFHQLMKD TTLNWKMVDA SKSIEAVHED IRVLSDAIR TATEKPLGEL WK
Sequence Length	212
Applicable Applications for DTYMK recombinant protein	SDS-PAGE
Tag Information	His-tag
Domain	1-212aa
Preparation and Storage	Can be stored at 2°C to 8°C for 1week. For long term storage , aliquot and store at -20°C to -80°C Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for DTYMK recombinant protein	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.
Product Categories/Family for DTYMK recombinant protein	Cell Cycle
References	Cummins RR., et al. (1980) Cancer Res. 40 (4):1235-9.; Su JY., et al. (1991) Nucleic Acids Res. 19 (4):823-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	42544174
NCBI GeneID	1841
NCBI Accession #	NP_036277
NCBI GenBank Nucleotide #	NM_012145.3
UniProt Accession #	P23919; Q6FGX1; Q9BUX4; B7ZW70
Molecular Weight	26 kDa (232aa), confirmed by MALDI-TOF
NCBI Official Full Name	thymidylate kinase isoform 1
NCBI Official Synonym Full Names	deoxythymidylate kinase
NCBI Official Symbol	DTYMK
NCBI Official Synonym Symbols	CDC8; TMPK; TYMK; PP3731
NCBI Protein Information	thymidylate kinase
UniProt Protein Name	Thymidylate kinase
UniProt Gene Name	DTYMK
UniProt Synonym Gene Names	CDC8; TMPK; TYMK

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.