

DTYMK 抗原（重组蛋白）

中文名称：DTYMK 抗原（重组蛋白）

英文名称：DTYMK Antigen (Recombinant Protein)

别名：deoxythymidylate kinase; CDC8; TMPK; TYMK; PP3731

储存：冷冻（-20℃）

相关类别：抗原

概述：

Fusion protein corresponding to a region derived from 2-212 amino acids of human DTYMK

技术规格：

Full name:	deoxythymidylate kinase
Synonyms:	CDC8; TMPK; TYMK; PP3731
Swissprot:	P23919
Gene Accession:	BC001827
Purity:	>85%, as determined by Coomassie blue stained SDS-PAGE
Expression system:	Escherichia coli
Tags:	His tag C-Terminus, GST tag N-Terminus
Background:	DTYMK (deoxythymidylate kinase (thymidylate kinase)), also known as CDC8, TMPK, TYMK or dTMP kinase, is a 212 amino acid protein that belongs to the 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. DTYMK expression levels peak during the S phase (synthesis phase) of the cell cycle, further supporting the role of DTYMK in DNA synthesis.