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Product datasheet for TP727185

DTYMK Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Thymidylate Kinase/DTYMK (C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Met1-Lys212
Tag:	C-His
Buffer:	Supplied as a 0.2 um filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Note:	Recombinant Human Thymidylate kinase is produced by our Mammalian expression system and the target gene encoding Met1-Lys212 is expressed with a 6His tag at the C-terminus.
Storage:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Stability:	12 months from date of despatch
Locus ID:	1841
UniProt ID:	P23919
Synonyms:	Thymidylate kinase;dTMP kinase;DTYMK;CDC8; TMPK; TYMK
Summary:	Thymidylate kinase (DTYMK) is a ubiquitous enzyme of about 25 kD which belongs to thymidylate kinase family. DTYMK is important in the dTTP synthesis pathway for DNA synthesis. It participated in the pyrimidine metabolism pathway and dTTP biosynthesis pathway. DTYMK catalyzes the conversion of dTMP to dTDP and catalyzes the phosphorylation of thymidine 5'-monophosphate (dTMP) to form thymidine 5'-diphosphate (dTDP) in the presence of ATP and magnesium. Structural and functional analyses suggest that the cDNA codes for authentic human dTMP kinase. The mRNA levels and enzyme activities corresponded to cell cycle progression and cell growth stages.
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Pyrimidine metabolism

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