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## Recombinant Escherichia coli Thymidine Phosphorylase

## REP0064 5000 U ≥ 600 units/ml

Description	Thymidine phosphorylase (TYMP) is an enzyme involved in pyrimidine metabolism; the enzymes which catalyze the reversible phosphorolysis of pyrimidine nucleosides are involved in the degradation of these compounds and in their utilization as carbon and energy sources, or in the rescue of pyrimidine bases for nucleotide synthesis. Defects in TYMP are the cause of mitochondrial DNA depletion syndrome type 1 (MTDPS1) also known as myoneurogastrointestinal encephalomyopathy, a multisystem disease associated with mitochondrial dysfunction. It is clinically characterized by onset between the second and fifth decades of life, ptosis, progressive external ophthalmoplegia, gastrointestinal dysmotility (often pseudoobstruction), diffuse leukoencephalopathy, thin body habitus, peripheral neuropathy, and myopathy. Thymidine phosphorylase (TYMP) is identical with an angiogenic factor, platelet-derived endothelial cell growth factor (PD-ECGF). TYMP is overexpressed in various tumors and plays an important role in angiogenesis, tumor growth, invasion and metastasis.
Product type	Recombinant protein
Expression system	Escherichia coli
Peptide	Recombinant full length protein: <i>E. coli</i> thymidine phosphorylase – Accession number: <b>WP_000477811</b>
Tested by	SDS Page, Western Blotting, Enzymatic activity
Purity	>95% pure estimated by SDS-PAGE (EU Ph. 5.0 § 2.5.31)
	1 2 3 4   97kDa - 66kDa -   66kDa - 66kDa -   97kDa - 45kDa -   97kDa - 45kDa -   90/yacrylamide) and stained with 30kDa -   20.1kDa - 20.1kDa -
Form	Liquid
Storage buffer	20mM K2HPO4/NaH2PO4 pH 7.5; 140mM NaCl; 3mM MSH; 10% glycerol.
Storage instructions	Shipped on dry ice. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.