

Recombinant Human Thymidine Phosphorylase, His-tagged

Cat. No. TYMP-799H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TYMP protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 51.3 kDa (493aa), confirmed by MALDI-TOF.
Species	Human
Source	E.coli
ProteinLength	11-482 a.a.
Description	Thymidine phosphorylase precursor, also known TYMP, is a platelet-derived endothelial cell growth factor that catalyzes the formation of thymine and 2-deoxy-D-ribose-1-phosphate from thymidine and orthophosphate. It is an angiogenic inducer that potently stimulates the growth of endothelial cells and induces chemotaxis. Increased expression of TYMP is seen in a wide variety of different solid tumors and inflammatory diseases and is often associated with poor prognosis.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MAPPAPGDFS GEGSQGLPDP SPEPKQLPEL IRMKRDGGRL SEADIRGFVA AVVNGSAQGA QIGAMLMAIR LRGMDLEETS VLTQALAQSG QQLEWPEAWR QQLVDKHSTG GVGDKVSLVL APALAACGCK VPMISGRGLG HTGGTLDKLE SIPGFNVIQS PEQMQVLLDQ AGCCIVGQSE QLVPADGILY AARDVTATVD SLPLITASIL SKKLVEGLSA LVVDVKFGGA AVFPNQEQR ELAKTLVGVG ASLGLRVAAA LTAMDKPLGR CVGHAEVEE ALLCMDGAGP PDLRDLVTTL GGALLWLSGH AGTQAQGAAR VAAALDDGSA

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LGRFERMLAA QGVDPGLARA LCSGSPAERR QLLPRAREQE ELLAPADGTV
ELVRALPLAL VLHELGAGRS RAGEPLRLGV GAELLVDVGQ RLRRGTPWLR
VHRDGPALSG PQSRALQEAL VLSDRAPFAA PSPFAELVLP PQQ

Purity > 90% by SDS – PAGE.

Form Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol.

Concentration 1 mg/ml (determined by Bradford assay).

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name [TYMP thymidine phosphorylase \[Homo sapiens \]](#)

Synonyms TYMP; thymidine phosphorylase; TP; ECGF1; MNGIE; PDEC GF; hPD-ECGF; endothelial cell growth factor 1 (platelet-derived); gliostatin; OTTHUMP00000196769; EC 2.4.2.4; TdRPase; Platelet-derived endothelial cell growth factor; PD-ECGF; OTTHUMP00000196768; TdRPase; Gliostatin

Gene ID [1890](#)

mRNA Refseq [NM_001113755](#)

Protein Refseq [NP_001107227](#)

MIM [131222](#)

UniProt ID [P19971](#)

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Chromosome Location	22q13
Pathway	Bladder cancer; Drug metabolism - other enzymes; Metabolic pathways; Pyrimidine metabolism
Function	growth factor activity; platelet-derived growth factor receptor binding; thymidine phosphorylase activity
	