

# 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 SSSLVPRGSH MAPPAPGDFS GEGSQGLPDP SPEPKQLPEL  
IRMKRDGGRL SEADIRGFVA AVVNGSAQGA QIGAMLMAIR LRGMDLEETS  
VLTQALAQSG QQLEWPEAWR QQLVDKHSTG GVGDKVSLVL APALAACGCK  
VPMISGRGLG HTGGTLDKLE SIPGFNVIQS PEQMQLLDQ AGCCIVGQSE  
QLVPADGILY AARDVTATVD SLPLITASIL SKKLVEGLSA LVVDVKFGGA  
AVFPNQEQR ELAKTLVGVG ASLGLRVAAA LTAMDKPLGR CVGHAVEVEE  
ALLCMDGAGP PDLRDLVTTL GGALLWLSGH AGTQAQGAAR VAAALDDGSA

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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; PDECGF; 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](#)

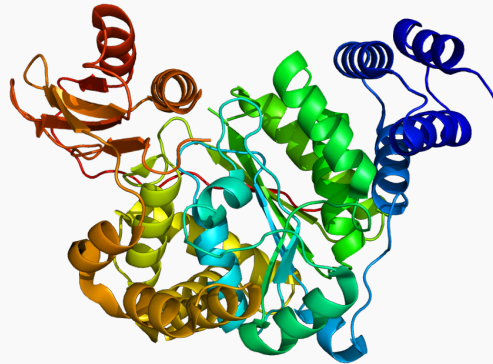
**UniProt ID** [P19971](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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



 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA