

## TYMP Human

**Description:** TYMP Human Recombinant fused with a 21 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 493 amino acids (11-482 a.a.) and having a molecular mass of 51.3kDa. The TYMP is purified by proprietary chromatographic techniques.

Catalog #:ENPS-012

For research use only.

**Synonyms:** Thymidine phosphorylase, Gliostatin, Platelet-derived endothelial cell growth factor, PD-ECGF, TdRPase, TYMP, ECGF1, TP, MNGIE, MEDPS1, MTDPS1, PDECGF, hPD-ECGF.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MAPPAPGDFS GEGSQGLPDP  
SPEPKQLPEL IRMKRDGGRL SEADIRGFVA AVVNGSAQGA QIGAMLMAIR LRGMDLEETS  
VLTQALAQSG QQLEWPEAWR QQLVDKHSTG GVGDKVSLVL APALAACGCK VPMISGRGLG  
HTGGTLDKLE SIPGFNVIQS PEQMQVLLDQ AGCCIVGQSE QLV PADGILY AARDVTATVD  
SLPLITASIL SK

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

### Formulation:

The TYMP solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 10% glycerol.

### Stability:

TYMP should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Thymidine phosphorylase precursor (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. TYMP is an angiogenic inducer that potently stimulates the growth of endothelial cells and induces chemotaxis. TYMP has a highly restricted target cell specificity acting only on endothelial cells. An increased expression of TYMP is found in a broad array of different solid tumors and inflammatory diseases and is frequently associated with poor prognosis. Mutations in the TYMP gene are linked to mitochondrial neurogastrointestinal encephalomyopathy.

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