
Product Data Sheet

Product Name: TYMP Human
 Cat. No.: GP22338
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Thymidine phosphorylase; Gliostatin; Platelet-derived endothelial cell growth factor; PD-ECGF; TdRPase; TYMP; ECGF1; TP; MNGIE; MEDPS1; MTDPS1; PDECGF; hPD-ECGF.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH 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 CVGHAVEVEE ALLCMDGAGP PDLRDLVTTL GGALLWLSGH AGTQAQGAAR VAAALDDGSA LGRFERMLAA QGVDPGLARA LCSGSPAERR QLLPRAREQE ELLAPADGTV ELVRALPLAL VLHELGAGRS RAGEPLRLGV GAELLVDVGQ RLRRGTPWLR VHRDGPALSG PQSRALQEAL VLSDRAPFAA PSPFAELVLP PQQ.		
Formulation	The TYMP solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 10% glycerol.		

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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