

Product information

TYMP, 11- 482 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0732

Full name: Thymidine phosphorylase

NCBI Accession No.: NP_001107228

Synonyms: ECGF1, hPD-ECGF, MNGIE, PDECGF, TP, Gliostatin

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. Recombinant human TYMP protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

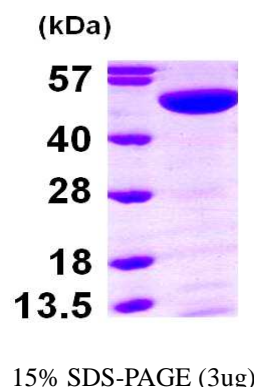
Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Molecular Weight: 51.3 kDa (493aa), confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

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

Endotoxin Level: < 1.0 EU per 1 µg of protein (determined by LAL method)



Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MAPPAPGDFS GEGSQGLPDP SPEPKQLPEL IRMKRDGGRL SEADIRGFVA AVVNGSAQGA QIGAMLMAIR
LRGMDLEETS VLTQALAQSG QQLWPEAWR QQLVDKHSTG GVGDKVSLVL APALAACGCK VPMISGRGLG HTGGTLDKLE SIPGFNVIQS
PEQMQLLDQ AGCCIVGQSE QLVPADGILY AARDVTATVD SLPLITASIL SKKLVEGLSA LVVDVKFGGA AVFPNQEQR ELAKTLVGVG
ASLGLRVAAA LTAMDKPLGR CVGHAEVEE ALLCMDGAGP PDLRDLVTTL GGALLWLSGH AGTQAQGAAR VAAALDDGSA LGRFERMLAA
QGVDPLARA LCGSPAERR QLLPRAREQE ELLAPADGTV ELVRALPLAL VLHELGAGRS RAGEPLRLGV GAELLVDVGQ RLRRGTPWLR
VHRDGPALSG PQSRALQEAL VLSDRAPFAA PSPFAELVLP PQQ

General references:

Heldin C H., *et al.* (1991) *J Cell Biochem.* 47:208-210.

Furukawa T., *et al.* (1992) *Nature.* 356:668.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:
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