

TYMP, 11-482aa, Human, His tag, E.coli

Cat.NO.: TP04364

3th Edition

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

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

Sequences:

MGSSHHHHHSSGLVPRGSHMAPPAPGDFSGEGSQGLPDPSPPEPKQLPELIRMKRDGGRLSEADIRGFVAAVNVN
GSAQGAQIGAMLMAIRLRGMDLEETSVLTQALAQSGQQLWPEAWRQQQLVDKHSTGGVGDVSLVLPALAAACG
CKVPMISGRGLGHTGGTLDKLESIPGFNVIQSPEQMQLLDQAGCCIVGQSEQLVPADGILYAARDVTATVDSLPLIT
ASILSKKLVEGLSALVVDVKFGGAAVFPNQEQARELAKTLVGVGASLGLRVAALAMDKPLGRCVGHAEVEEALL
CMDGAGPPDLRDLVTTLGGALLWLSGHAGTQAQGAARVAAALDDGSALGRFERMLAAQGVDPGLARALCSGSPA
ERRQLLPRAREQEELLAPADGTVELVRALPLALVLHELGAGRSRAGEPLRLGVGAELLVDVGQRLRRGTPWLRVH
RDGPALSGPQSRAEQEALVLSDRAPFAAPSFAELVLPPIQQ

Purity: > 95% by HPLC

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

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

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.