

Recombinant human PD-ECGF/TYMP protein

Catalog Number: ATGP0732

PRODUCT INFORMATION

Expression system

E.coli

Domain

11-482aa

UniProt No.

P19971

NCBI Accession No.

NP_001107228

Alternative Names

Thymidine phosphorylase, ECGF1, hPD-ECGF, MNGIE, PDECGF, TP, Gliostatin, Platelet-derived endothelial cell growth factor, TdRPase

PRODUCT SPECIFICATION

Molecular Weight

51.3 kDa (493aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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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.

Amino acid Sequence

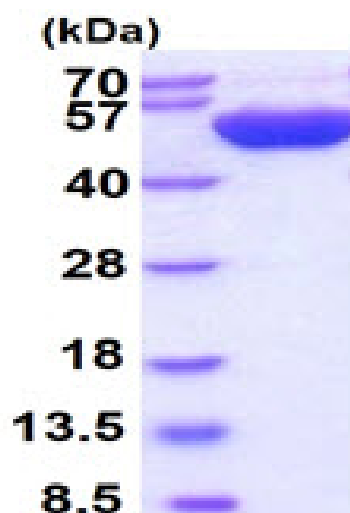
MGSSHHHHHH SSGLVPRGSH MAPPAPGDFS GEGSQGLPDP SPEPKQLPEL IRMKRDGGRL SEADIRGFVA AVVNGSAQGA QIGAMLMAIR LRGMDLEETS VLTQALAQSG QQLEWPEAWR QQLVDKHSTG GVGDKVSLVL APALAACGCK VPMISGRGLG HTGGTLDKLE SIPGFNVIQS PEQMQVLLDQ AGCCIVGQSE QLVPADGILY AARDVTATVD SLPLITASIL SKKLVEGLSA LVVDVKFGGA AVFPNQEQR ELAKTLVGVG ASLGLRVAAA LTAMDKPLGR CVGHAEVEE ALLCMDGAGP PDLRDLVTTL GGALLWLSGH AGTQAQGAAR VAAALDDGSA LGRFERMLAA QGVDPGLARA LCSGSPAERR QLLPRAREQE ELLAPADGTV ELVRALPLAL VLHELGAARS RAGEPLRLGV GAELLVDVGQ RLRRGTPWLR VHRDGPALSG PQSRALQEAL VLSRAPFAA PSPFAELVLP PQQ

General References

Heldin C H., et al. (1991) J Cell Biochem. 47:208-210.
Furukawa T., et al. (1992) Nature. 356:668.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)