

# Recombinant human PTTG1 protein

Catalog Number: ATGP0366

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-202aa

### UniProt No.

O95997

### NCBI Accession No.

NP\_004210

### Alternative Names

Pituitary tumor-transforming protein 1, EAP1, HPTTG, PTTG, TuTR1, SECuRIN, Pituitary tumor-transforming protein 1 ESP1 ASSOCIATED PROTEIN 1, Esp1-associated protein, MGC126883, MGC138276, Pds1, PTTG1 protein, PTTG1, Pituitary tumor transforming 1, PTTG 1, EAP 1, Cut2, Pituitary tumor transforming protein 1, AW555095, Pituitary tumor-transforming 1, isoform CRA\_a, Pituitary tumor-transforming 1, isoform CRA\_b, hPTTG, Pituitary tumor-transforming gene 1, TuTR 1, Pttg3, Pituitary tumor-transforming gene 1 protein, C87862, TuMOR TRANSFORMING 1, Tumor transforming protein 1,

## PRODUCT SPECIFICATION

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### Molecular Weight

24.1 kDa (222aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol, 1mM EDTA, 0.1mM PMSF

### 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.

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## BACKGROUND

### Description

PTTG1, also known as Securin, is primarily involved in the regulation of sister chromatid separation during cell division. It has two identified roles; the first one is to help the transport of separase (cysteine protease) to the nucleus and the second role is to inhibit the catalytic activity of separase. It is ubiquitinated by the Anaphase Promoting Complex (APC), and then degraded by the Proteasome, releasing separase. Recombinant PTTG1 protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

### Amino acid Sequence

MGSSHHHHHHH SGLVPRGSH MATLIYVDKE NGEPGTRVVA KDGLKLGSGP SIKALDGRSQ VSTPRFGKTF DAPPALPKAT  
RKALGTVNRA TEKSVKTKGP LKQKQPSFSA KKMTEKTVKA KSSVPASDDA YPEIEKFFPF NPLDFESFDL PEEHQIAHLP  
LSGVPLMILD EERELEKLFQ LGPPSPVKMP SPPWESNLLQ SPSSILSTLD VELPPVCCDI DI

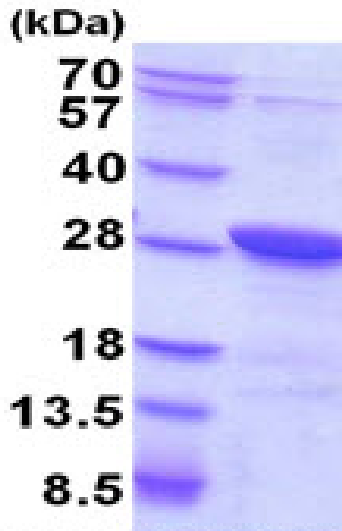
### General References

Chien W., et al. (2000) *J Biol Chem.* 275(25):19422-7.

Tariq Hamid., et al. (2005) *Molecular Cancer.* 4(1):3.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)