

# Recombinant human TTC1 protein

Catalog Number: ATGP1641

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-292aa

**UniProt No.**

Q99614

**NCBI Accession No.**

NP\_003305

**Alternative Names**

Tetratricopeptide repeat protein 1, TPR1

## PRODUCT SPECIFICATION

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**Molecular Weight**

36.1 kDa (316aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

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

**Purity**

&gt; 85% by SDS-PAGE

**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

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**Description**

TTC1, also known as tetratricopeptide repeat protein 1, is composed of 292 amino acids with three TPR motifs, as a Galpha16-binding protein. The interaction was confirmed both in vitro and in transfected mammalian cells, where TTC1 also binds to several other Galpha proteins. TTC1 was found to interact with Ha-Ras preferentially in its active form. Recombinant human TTC1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MGEKSE NCGVPEDLLN GLKVTDQTQA ECAGPPVPDP KNQHSQSKLL  
RDDEAHLQED QGEEECFHDC SASFEEEPGA DKVENKSNEE VNSSELDEEY LIELEKNMSD EEKQKRREES TRLKEEGNEQ  
FKKGDYIEAE SSYSRALEMC PSCFQKERSI LFSNRAAARM KQDKKEMAIN DCSKAIQLNP SYIRAILRRA ELYEKTDKLD  
EALDYKSIL EKDPsiHQAR EACMRLPKQI EERNERLKEE MLGKLKDLGN LVL RPFGLST ENFQIKQDSS TGSYSINLVQ  
NPNNNR

## General References

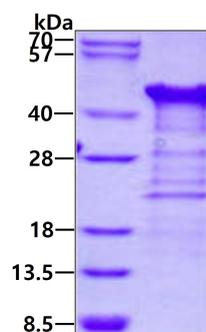
Liu AM., et al. (2011) BMC Struct Biol. 13  
11:17

Strausberg RL., et al. (2007) Proc. Natl. Acad. Sci. u.S.A. 26:16899-16903

## DATA

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### SDS-PAGE



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