

Recombinant human TCP1 protein

Catalog Number: ATGP0768

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-556aa

UniProt No.

P17987

NCBI Accession No.

NP_110379

Alternative Names

T-complex protein 1 subunit alpha, CCT-alpha, CCT1, CCT, TCP-1-alpha

PRODUCT SPECIFICATION

Molecular Weight

62.5 kDa (576aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 0.1mM PMSF,10% glycerol

Purity

> 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

Description

TCP1 is a molecular chaperone that is a member of the chaperonin containing TCP1 complex (CCT), also known as the TCP1 ring complex (TRiC). This protein is found in the cytosol as a subunit of a hetero-oligomeric chaperone. It has an important function in maintaining cellular homeostasis by assisting the folding of many proteins, including the cytoskeletal components actin and tubulin. Recombinant human TCP1 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 SSSLVPRGSH> MEGPLSVFGD RSTGETIRSQ NVMAAASIAN IVKSSLGPVG LDKMLVDDIG
DVTITNDGAT ILKLLEVEHP AAKVLCELAD LQDKEVGDGT TSVVIAAEL LKNADELVKQ KIHPTSVISG YRLACKEAVR
YINENLIVNT DELGRDCLIN AAKTSMSSKI IGINGDFFAN MVVDAVLAIK YTDIRGQPRY PVNSVNILKA HGRSQMESML
ISGYALNCVV GSQGMPKRIV NAKIACLDFS LQKTKMKLGV QVVITDPEKL DQIRQRES DI TKERIQKILA TGANVILTTG
GIDDMCLKYF VEAGAMAVRR VLKRD LKRIA KASGATILST LANLEGEETF EAAMLGQAE E VVQERICDDE LILIKNTKAR
TSASIILRGA NDFMCDEMER SLHDALCVVK RVLESKSVVP GGGAVEAALS IYLENYATSM GSREQLAIAE FARSLLVIPN
TLAVNAAQDS TDLVAKLRAF HNEAQVNPER KNLKWIGLDL SNGKPRDNKQ AGVFEPTIVK VKSLKFATEA AITILRIDDL
IKLHPESKDD KHGSYEDAVH SGALND

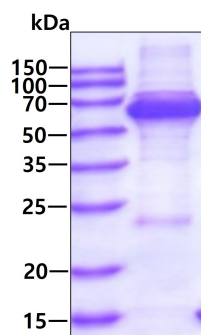
General References

Willison KR., et al. (2008) EMBO J. 27(13):1827-39

Kubota H., et al (2001) Eur J Biochem. 268(17):4664-73.

DATA

SDS-PAGE



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