

Recombinant Human T-complex 1, His-tagged

Cat. No. TCP1-2851H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TCP1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography. MW = 62.5 kDa (576aa) confirmed by MALDI-TOF.
Species	Human
Source	E.coli
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 homoeostasis by assisting the folding of many proteins, including the cytoskeletal components actin and tubulin.
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MEGPLSVFGD RSTGETIRSQ NVMAAASIAN IVKSSLGPVG LDKMLVDDIG DVTITNDGAT ILKLLEVEHP AAKVLCCELAD LQDKEVG DGT TSVVIAAEL LKNADELVKQ KIHPTSVISG YRLACKEAVR YINENLIVNT DELGRDCLIN AAKTSMSSKI IGINGDFFAN MVVDAVLAIK YTDIRGQPRY PVNSVNILKA HGRSQMESML ISGYALNCVV GSQGM PKRIV NAKIACLD FS LQKTKMKLG V QVVITDPEKL DQIRQRES DI TKERIQKILA TGANVILTTG GIDDMCLKYF VEAGAMAVRR VLKRD LKRIA KASGATILST LANLEGEETF EAAMLGQAE E VVQERICDDE LILIKNTKAR TSASIILRGA NDFMCD EMER SLHDALCVVK RVLESKSVVP GGGAVEAALS IYLENYATSM GSREQLAIAE FAR SLLVIPN TLAVNAAQDS TDLVAKLRAF HNEAQVNPER

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KNLKWIGLDL SNGKPRDNKQ AGVFEPTIVK VKSLKFATEA AITILRIDDL
IKLHPESKDD KHGSYEDAVH SGALND

Form

Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 1 mM DTT, 0.1 mM PMSF, 10% Glycerol.

Purity

> 80% by SDS – PAGE.

Concentration

0.5 mg/ml (determined by Bradford assay).

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.

GENE INFORMATION

Gene Name

TCP1 t-complex 1 [Homo sapiens]

Synonyms

TCP1; t-complex 1; CCT1; CCTa; D6S230E; CCT-alpha; TCP-1-alpha; T-complex protein 1 subunit alpha; tailless complex polypeptide 1; T-complex protein 1, alpha subunit

Gene ID

6950

mRNA Refseq

NM_001008897

Protein Refseq

NP_001008897

MIM

186980

UniProt ID

P17987

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Chromosome Location	6q25.3-q26
Pathway	Metabolism of proteins
Function	ATP binding; nucleotide binding; unfolded protein binding

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