

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 homeostasis by assisting the folding of many proteins, including the cytoskeletal components actin and tubulin.
Amino Acid Sequence	<p>MGSSHHHHH SGLVPRGSH MEGPLSVFGD RSTGETIRSQ NVMAAASIAN IVKSSLGPVG LDKMLVDDIG DVTITNDGAT ILKLEVEHP AAKVLCCELAD LQDKEVGDGT TSVVIAAEL LKNADELVKQ KIHPTSVISG YRLACKEAVR YINENLIVNT DELGRDCLIN AAKTSMSSKI IGINGDFFAN MVVDAVLAIK YTDIRGQPRY PVNSVNILKA HGRSQMESML ISGYALNCVV GSQGMPCRIV NAKIACLDIFS LQKTKMCLGV QVVITDPEKL DQIRQRES DI TKERIQKILA TGANVILTTG GIDDMCLKYF VEAGAMAVRR VLKRD LKRIA KASGATILST LANLEGEETF EAAMLGQAE VVQERICDDE LILIKNTKAR TSASIILRGA NDFMCDEMER SLHDALCVVK RVLESKSVVP GGGAVEAALS IYLENYATSM GSREQLAIAE FARSLVIPN TLAVNAAQDS TDLVAKLRAF HNEAQVNPER</p>

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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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