

Recombinant Human TCP1, His-tagged

Cat. No. TCP1-27950TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human TCP1, aa 1-556 with a N terminal His-tag;576aa inclusive of tag, 62.5 kDa.
Species	Human
Source	E.coli
ProteinLength	576 amino acids
Description	The protein encoded by this gene is a molecular chaperone that is a member of the chaperonin containing TCP1 complex (CCT), also known as the TCP1 ring complex (TRiC). This complex consists of two identical stacked rings, each containing eight different proteins. Unfolded polypeptides enter the central cavity of the complex and are folded in an ATP-dependent manner. The complex folds various proteins, including actin and tubulin. Alternate transcriptional splice variants of this gene, encoding different isoforms, have been characterized. In addition, three pseudogenes that appear to be derived from this gene have been found.
Conjugation	HIS
Molecular Weight	62.500kDa inclusive of tags
Form	Liquid
Purity	by SDS-PAGE

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Storage buffer	Preservative: 0% None Constituents: 10% Glycerol, 20mM Tris HCl, 1mM DTT, 0.1mM PMSF, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	<p>MGSSHHHHHSSGLVPRGSHMEGPLSVFGDRSTGETIRSQNVMAAASIANIVKSSL GPVGLDKMLVDDIGDVTITNDGATILKLEVEHPAAKVLCELADLQDKEVGDGTTSSV IIAAELLKNADELVKQKIHPTSVISGYRLACKEAVRYINENLIVNTDELGRDCLINA AKTSMSSKIIGINGDFFANMVVDAVLAIKYTDIRGQPRYPVNSVNILKAHGRSQMESMLIS GYALNCVVGSGQMPKRIVNAKIACLDLQTKMKLGVQVVITDPEKLDQIRQRES DI TKERIQKILATGANVILTTGGIDMCLKYFVEAGAMAVRRVLKRD LKRIAKASGATILS TLANLEGEETFEAAMLGQAEVQERICDDELILIKNTKARTS ASIILRGANDFMCDE MERSLHDALCVVKRVLESKSVVPGGAVEAALS IYLENYATSMGSREQLAIAEFARS LLVIPNTLAVNAAQDSTDLVAKLRAF HNEAQVNPERKNLKWIGLDLSNGKPRDNKQAGVF EPTIVKVKSLKFATEAAITILRIDDLIKLHPESKDD KHGSYEDAVHSGALND</p>
Sequence Similarities	Belongs to the TCP-1 chaperonin family.

GENE INFORMATION

Gene Name	TCP1 t-complex 1 [Homo sapiens]
Official Symbol	TCP1
Synonyms	TCP1; t-complex 1; T-complex protein 1 subunit alpha; CCT1; Ccta; D6S230E;
Gene ID	6950
mRNA Refseq	NM_001008897

Protein Refseq	NP_001008897
MIM	186980
Uniprot ID	P17987
Chromosome Location	6q25-q27
Pathway	Association of TriC/CCT with target proteins during biosynthesis, organism-specific biosystem; Chaperonin-mediated protein folding, organism-specific biosystem; Cooperation of Prefoldin and TriC/CCTin actin and tubulin folding, organism-specific biosystem; Folding of actin by CCT/TriC, organism-specific biosystem; Formation of tubulin folding intermediates by CCT/TriC, organism-specific biosystem;
Function	ATP binding; nucleotide binding; unfolded protein binding;

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