

## 32-5055: Recombinant Human T-Complex 1

**Alternative Name :** T-complex protein 1 subunit alpha,TCP-1-alpha,CCT-alpha,TCP1,CCT1,CCTA,D6S230E.

### Description

Source : Escherichia Coli. TCP1 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 576 amino acids (1-556 a.a.) and having a molecular mass of 62.5kDa. The TCP1 is purified by proprietary chromatographic techniques. 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 complex consists of 2 identical stacked rings, each containing eight different proteins. Unfolded polypeptides penetrate the central cavity of the complex and are folded in an ATP-dependent manner. The TCP1 protein is found in the cytosol as a subunit of a hetero-oligomeric chaperone. TCP1 has a significant function in maintaining cellular homeostasis by assisting the folding of many proteins such as the cytoskeletal components actin and tubulin.

### Product Info

**Amount :** 10 µg

**Purification :** Greater than 80.0% as determined by SDS-PAGE.

**Content :** The TCP1 solution (0.5 mg/ml) contains 20mM Tris-HCl Buffer (pH 8.0), 1mM DTT, 0.1mM PMSF and 10% Glycerol.

**Storage condition :** TCP1 should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Amino Acid :** MGSSHHHHHH SSSLVPRGSH MEGPLSVFGD RSTGETIRSQ NVMAAASIAN IVKSSLGPVG LDKMLVDDIG DVTITNDGAT ILKLEVEHP AAKVLCELAD LQDKEVGDGT TSVVIAAEL LKNADELVKQ KIHPTSVISG YRLACKEAVR YINENLIVNT DELGRDCLIN AAKTSMSSKI IGINGDFFAN MVVDAVLAIK YTDIRGQPRY PVNSVNILKA HGRSQMESML ISGYALNCVV GSQGM PKRIV NAKIACLD FS LQKTKM KLG V QVVITDPEKL DQIRQRES DI TKERIQKILA TGANVILTTG GIDDMCLKYF VEAGAMAVRR VLKRD LKRIA KASGATILST LANLEGEETF EAAMLGQAE E VVQERICDDE LILIKNTKAR TSASIILRGA NDFMCDEMER SLHDALCVVK RVLESKSVVP GGGAVEAALS IYLENYATSM GSREQLAIAE FARLLVIPN TLAVNAAQDS TDLVAKLRAF HNEAQV NPER KNLKWIGLDL SNGKPRDNKQ AGVFEPTIVK VKSLKFATEA AITILRIDDL IKLHPESKDD KHGSYEDAVH SGALND.

