

## TCP1 Human

**Description:** 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.

Catalog #: PRPS-283

For research use only.

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

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MEGPLSVFGD RSTGETIRSQ  
NVMAAASIAN IVKSSLGPVG LDKMLVDDIG DVTITNDGAT ILKLLEVEHP AAKVLCCELAD  
LQDKEVGDGT TSVVIAAEL LKNADELVKQ KIHPTSVISG YRLACKEAVR YINENLIVNT  
DELGRDCLIN AAKTSMSSKI IGINGDFFAN MVVDAVLAIK YTDIRGQPRY PVNSVNILKA  
HGRSQMESML IS

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

### Formulation:

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

### Stability:

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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

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.

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