

TCP1, 1-556aa, Human, His tag, E.coli

Cat.NO.: TP04172

3th Edition

Synonyms:T-complex protein 1 subunit alpha, CCT-alpha, CCT1, CCT, TCP-1-alpha

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. Recombinant human TCP1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

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

Molecular Weight:62.5 kDa (576aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMEGPLSVFGDRSTGETIRSQNVMAAASIANIVKSSLGPVGLDKMLVDDIGDVTITN
DGATILKLEVEHPAAKVLCELADLQDKEVGDGTTSVVIAAELLKNADELVKQKIHPTSVISGYRLACKEAVRYINENL
IVNTDELGRDCLINAAKTSMSKIIINGDFFANMVVDAVLAIKYTDIRGQPRYPVNSVNILKAHGRSQMESMLISGYA
LNCVVGSGMPKRIVNAKIACLDFSLQKTKMKLGVQVVITDPEKLDQIRQRES DITKERIQKILATGANVILTTGGIDD
MCLKYFVEAGAMAVRRVLKRDLKRIAKASGATILSTLANLEGEETFEAAMLGQAEEVVQERICDDELILIKNTKARTS
ASIILRGANDFCDEMERSLHDALCVVKRVLESKSVVPGGGAVEAALSIYLENYATSMGSREQLAIAEFARSLLVIPN
TLAVNAAQDSTDVAKLRAFHNEAQVNPERKNLKWIGLDLSNGKPRDNKQAGVFPEPTIVKVKSLKFATEAAITILRID
DLIKLHPESKDDKHGSYEDAVHSGALND

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.