
Product Data Sheet

Product Name: TCP1 Human
 Cat. No.: GP24800
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	T-complex protein 1 subunit alpha; TCP-1-alpha; CCT-alpha; TCP1; CCT1; CCTA; D6S230E.		
Amino Acid Sequence	<p>MGSSHHHHHH SSGLVPRGSH MEGPLSVFGD RSTGETIRSQ NVMAAASIAN IVKSSLGPVG LDKMLVDDIG DVTITNDGAT ILKLLEVEHP AAKVLCCELAD LQDKEVGDGT TSVVIAAEL LKNADELVKQ KIHPTSVISG YRLACKEAVR YINENLIVNT DELGRDCLIN AAKTSMSSKI IGINGDFFAN MVVDAVLAIK YTDIRGQPRY PVNSVNILKA HGRSQMESML ISGYALNCVV GSQGMPCRIV NAKIACLDIFS LQKTKMKLGV QVVITDPEKL DQIRQRES DI TKERIQKILA TGANVILTTG GIDDMCLKYF VEAGAMAVRR VLKRD LKRIA KASGATILST LANLEGEETF EAAMLGQAEV VVQERICDDE LILIKNTKAR TSASIILRGA NDFMCDemer SLHDALCVVK RVLESKSVVP GGGAVEAALS IYLENYATSM GSREQLAIAE FARSLLVIPN TLAVNAAQDS TDLVAKLRAF HNEAQVNPER KNLKWIGLDL SNGKPRDNKQ AGVFEPTIVK VKSLKFATEA AITILRIDDL IKLHPESKDD KHGSYEDAVH SGALND.</p>		
Formulation	The TCP1 solution (0.5 mg/ml) contains 20mM Tris-HCl Buffer (pH 8.0), 1mM DTT, 0.1mM PMSF and 10% Glycerol.		

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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA