

## Recombinant Human CCT5, His-tagged

**Cat. No.** CCT5-27006TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant fragment, corresponding to amino acids 163-541 of Human TCP1 epsilon with an N terminal His tag. Predicted MWt: 43 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 163-541 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | 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 have been observed but have not been thoroughly characterized. In addition, three pseudogenes of this gene have been identified. |
| <b>Conjugation</b>      | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>             | Lyophilised:Reconstitute with 65 µl aqua dest.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage buffer</b>   | Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                        |
| <b>Sequences of amino acids</b> | <p>EPLIQTAKTTLGSKVVNSCHRQMAEIAVNAVLTVADMERR DVDFELIKVEGKVGGRLEDTKLIKGVIVDKDFSHPQMP KKVEDAKIAILTCPFEPKPKTKHKLDVTSVEDYKALQ KYEKEKFEEMIQQIKETGANLAICQWGFDDDEANHLLLQ&gt;NNLPAVRWVGGPEIELIAIATGGRIVPRFSELTAEKLGFAGLVQEISFGTTKDKMLVIEQCKNSRAVTIFIRGGNKMI IEEAKRSLHDALCVIRNLIRDNRVVYGGGAAEISCALEVSQEADKCPTLEQYAMRAFADALEVIPMALSENSGMNP IQTMTEVRARQVKEMNPALGIDCLHKGTNDMKQQHVIE TLIGKKQQISLATQMVRMILKIDDIRKPGSEEE</p> |

## GENE INFORMATION

|                            |                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | CCT5 chaperonin containing TCP1, subunit 5 (epsilon) [ Homo sapiens ]                                 |
| <b>Official Symbol</b>     | CCT5                                                                                                  |
| <b>Synonyms</b>            | CCT5; chaperonin containing TCP1, subunit 5 (epsilon); T-complex protein 1 subunit epsilon; KIAA0098; |
| <b>Gene ID</b>             | 22948                                                                                                 |
| <b>mRNA Refseq</b>         | NM_012073                                                                                             |
| <b>Protein Refseq</b>      | NP_036205                                                                                             |
| <b>MIM</b>                 | 610150                                                                                                |
| <b>Uniprot ID</b>          | P48643                                                                                                |
| <b>Chromosome Location</b> | 5                                                                                                     |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**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/CCT in 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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA