Recombinant Human CCT2, His-tagged

Cat. No. CCT2-27951TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1-487 of Human TCP1 beta with N terminal His tag; MWt 56 kDa.
Species	Human
Source	E.coli
ProteinLength	1-487 a.a.
Description	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. Two transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 68 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of amino acids	MASLSLAPVNIFKAGADEERAETARLTSFIGAIAIGDLVK STLGPKGMDKILLSSGRD ASLMVTNDGATILKNIGVDN PAAKVLVDMSRVQDDEVGDGTTSVTVLAAELLREAE SL IAKKIHPQTIIAGWREATKAAREALLSSAVDHGSDEVKFR QDLMNIAGTTLSSKLL THHKDHFTKLAVEAVLRLKGSG NLEAIHIIKKLGGSLADSYLDEGFLLDKKIGVNQPK RI ENAKILIANTGMDTDKIKIFGSRVRVDSTAKVAEIEHA EKEKMKEKVERILKHGINC FINRQLIYNYPEQLFGAAGVM AIEHADFAGVERLALVTGGEIASTFDHPELVKLGSCK L IEEVMIGEDKLIHFSGVALGEACTIVLRGATQQILDEA ERSLHDALCVLAQTVKDSR TVYGGGCSEMLMAHAVTQLANRTPGKEAVAMESYAKALRMLPTIIADNAGYDSADL VAQ LRAAHSEGNTTAGLDMREGTIGD
Sequence Similarities	Belongs to the TCP-1 chaperonin family.

GENE INFORMATION

Gene Name	CCT2 chaperonin containing TCP1, subunit 2 (beta) [Homo sapiens]
Official Symbol	CCT2
Synonyms	CCT2; chaperonin containing TCP1, subunit 2 (beta); T-complex protein 1 subunit beta; Cctb;
Gene ID	10576
mRNA Refseq	NM_001198842
Protein Refseq	NP_001185771
MIM	605139
Uniprot ID	P78371

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Chromosome Location	12q14
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/CCTin 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;

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