Recombinant Human CCT4, His-tagged

Cat. No. CCT4-27952TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 266-539 of Human TCP1 delta with a N terminal His tag; predicted MWt 31 kDa:
Species	Human
Source	E.coli
ProteinLength	266-539 a.a.
Description	The chaperonin containing TCP1 (MIM 186980) complex (CCT), also called the TCP1 ring complex, consists of 2 back-to-back rings, each containing 8 unique but homologous subunits, such as CCT4. CCT assists the folding of newly translated polypeptide substrates through multiple rounds of ATP-driven release and rebinding of partially folded intermediate forms. Substrates of CCT include the cytoskeletal proteins actin (see MIM 102560) and tubulin (see MIM 191130), as well as alpha-transducin (MIM 139330) (Won et al.
Conjugation	HIS
Form	Lyophilised:reconstitution with 156 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	VSDYAQMDRVLREERAYILNLVKQIKKTGCNVLLIQKSIL RDALSDLALHFLNKMKIM VIKDIEREDIEFICKTIGTK PVAHIDQFTADMLGSAELAEEVNLNGSGKLLKITGCAS P GKTVTIVVRGSNKLVIEEAERSIHDALCVIRCLVKKRAL IAGGGAPEIELALRLTEYSR TLSGMESYCVRAFADAME VIPSTLAENAGLNPISTVTELRNRHAQGEKTAGINVRK GGISNILEELVVQPLLVSVSALTLATETVRSILKIDDV VNTR

GENE INFORMATION

Gene Name	CCT4 chaperonin containing TCP1, subunit 4 (delta) [Homo sapiens]
Official Symbol	CCT4
Synonyms	CCT4; chaperonin containing TCP1, subunit 4 (delta); T-complex protein 1 subunit delta; Cctd;
Gene ID	10575
mRNA Refseq	NM_006430
Protein Refseq	NP_006421
MIM	605142
Uniprot ID	P50991
Chromosome Location	2p15
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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