

Recombinant Human CCT5 protein, His-tagged

Cat. No. CCT5-109H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CCT5 protein (242-541aa) was fused to His-tag and expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	242-541 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. Mutations in this gene cause hereditary sensory and autonomic neuropathy with spastic paraplegia (HSNSP). Alternative splicing results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 5 and 13.
Form	The purified protein was Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH7.). 5% trehalose and 5% mannitol are added as protectants before lyophilization.
Molecular Mass	39 kDa

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AA Sequence	KVEDAKIAILTCPFEPPKPKTKHKLDVTSVEDYKALQKYEKEKFEEMIQQIKETGANLA ICQWGFDDDEANHLLLQNNLPAVRWVGGPEIELIAIATGGRIVPRFSELTAEKLGFAGL VQEISFGTTKDKMLVIEQCKNSRAVTIFIRGGNKMIIIEAKRSLHDALCVIRNLIRDNRV VYGGGAAEISCALAVSQEADKCPtleQYAMRAFADALEVPMALSENSGMNPIQTMT EVRARQVKEMNPALGIDCLHKGTNDMKQQHVIETLIGKKQQISLATQMVRMILKIDDI RKPGESEE
Purity	95%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Storage	Short-term storage: Store at 2-8 centigrade for (1-2 weeks). Long-term storage: Aliquot and store at -20 to -80 centigrade for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.
Reconstitution	Reconstitute at 0.25 $\mu\text{g}/\mu\text{l}$ in 200 μl sterile water for short-term storage. Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage. If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

GENE INFORMATION

Gene Name CCT5

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Official Symbol	CCT5
Synonyms	CCTE; HEL-S-69; PNAS-102; CCT-epsilon; TCP-1-epsilon
Gene ID	22948
mRNA Refseq	NM_012073.5
Protein Refseq	NP_036205.1
MIM	610150
UniProt ID	P48643
SDS-PAGE of CCT5-109H 	