

32-5038: Recombinant Human Tubulin Folding Cofactor A

Alternative Name : Tubulin-specific chaperone A, Tubulin-folding cofactor A, CFA, TCP1-chaperonin cofactor A, TBCA.

Description

Source : Escherichia Coli. TBCA Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 108 amino acids (1-108 a.a.) and having a molecular mass of 12.8 kDa. The TBCA is purified by proprietary chromatographic techniques. TBCA is a tubulin-folding protein which is involved in the early step of the tubulin folding pathway. TBCA is one of four proteins (cofactors A, D, E, and C) implicated in the pathway directing to properly folded beta-tubulin from folding intermediates. Cofactors A and D are thought to be a factor in capturing and stabilizing beta-tubulin in a quasi-native confirmation. TBCA is crucial for cell viability, if reduced it causes a decrease in the amount of soluble tubulin, alterations in microtubules and G1 cell cycle arrest. Cofactor E attaches to the cofactor D-tubulin complex, afterward, interaction with cofactor C triggers the release of tubulin polypeptides that are committed to the native state.

Product Info

Amount :	25 µg
Purification :	Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Content :	The TBCA solution contains 20mM Tris-HCl buffer pH 7.5, 1mM DTT and 10% glycerol.
Storage condition :	TBCA although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Amino Acid :	MADPRVRQIK IKTGVVKRLV KEKVMYEKEA KQEEKIEKM RAEDGENYDI KKQAEILQES RMMIPDCQRR LEAAYLDLQR ILENEKDLEE AEEYKEARLV LDSVKLEA.

