
Product Data Sheet

Product Name: TBCA Human
 Cat. No.: GP24784
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tubulin-specific chaperone A; Tubulin-folding cofactor A; CFA; TCP1-chaperonin cofactor A; TBCA.		
Amino Acid Sequence	MADPRVRQIK IKTGVVKRLV KEKVMYEKEA KQQEEKIEKM RAEDGENYDI KKQAEILQES RMMIPDCQRR LEAAYLDLQR ILENEKDLEE AEEYKEARLV LDSVKLEA.		
Formulation	The TBCA solution contains 20mM Tris-HCl buffer pH 7.5, 1mM DTT and 10% glycerol.		

Introduction

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

TBCA Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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