
Product Data Sheet

Product Name: TBCB Human
 Cat. No.: GP24785
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tubulin folding cofactor B; Cytoskeleton-associated protein CKAPI; cytoskeleton associated protein 1; CKAP1; CG22; Tubulin-specific chaperone B.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMEVTGV SAPTVTVFIS SSLNTRSEK RYSRSLTIAE FKCKLELLVG SPASCMELEL YGVDDKFYSK LDQEDALLGS YPVDDGCRIH VIDHSGARLG EYEDVSRVEK YTISQEAYDQ RQDTVRSFLK RSKLGRYNEE ERAQQEAEAA QRLAEEKAQA SSIPVGSRCV VRAAGQSPRR GTVMYVGLTD FKPGYWIGVR YDEPLGKNDG SVNGKRYFEC QAKYGAFVKP AVVTVGDFPE EDYGLDEI		
Formulation	The TBCB solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl and 20% glycerol.		

Introduction

TBCB is a member of the Microtubules family. Biosynthesis of functional microtubules include the involvement of a number of chaperones, termed Tubulin folding cofactors A (TBCA), B (TBCB), C (TBCC), D (TBCD) and E (TBCE), which operate on folding intermediates downstream of the cytosolic chaperon, known as TCP. The 244 amino acid cytoplasmic protein TBCB has one CAP-Gly domain and is universally expressed. TBCB takes part in the regulation of tubulin heterodimer dissociation and operates as a negative regulator of axonal growth.

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.

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

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Background

TBCB Human Recombinant produced in E. coli is a single polypeptide chain containing 268 amino acids (1-244) and having a molecular mass of 29.9 kDa. TBCB is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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