

TBCB, 1-244aa, Human, His tag, E.coli

Cat.NO.: TP04157

3th Edition

Synonyms:Tubulin folding cofactor B, CG22, CKAP1, CKAPI

Description:Tubulin folding cofactor B, also known as TBCB, belongs to the Microtubules family. Biosynthesis of functional microtubules involve the participation of several chaperones, termed Tubulin folding cofactors A (TBCA), B (TBCB), D (TBCD), E (TBCE) and C (TBCC), that act on folding intermediates downstream of the cytosolic chaperon, alternatively named TCP. TBCB is a 244 amino acid cytoplasmic protein containing one CAP-Gly domain and is widely expressed. TBCB is involved in the regulation of tubulin heterodimer dissociation and may function as a negative regulator of axonal growth. Recombinant human TBCB protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol

Molecular Weight:29.9 kDa (268aa) confirmed by MALDI-TOF (Molecular size on SDS-PAGE will appear higher)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSHMEVTGVSAPTVTVFISSSLNTRSEKRYRSRLTIAEFKCKLELLVGSPASCM
ELEYGVDDKFKYKLDQEDALLGSYPVDDGCRIHVIDHSGARLGEYEDVSRVEKYTISQEAYDQRQDTRVRSFLKRS
KLGRYNEEERAQQEAEAAQRLAEEKAQASSIPVGSRCVRAAGQSPRRGTVMYVGLTDFKPGYWIGVRYDEPLG
KNDGSVNGKRYFECQAKYGAFVKPAVVTVGDFPEEDYGLDEI

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.