

Human TBCB Protein (His Tag)

Catalog Number: 14260-H07E



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

CG22; CKAP1; CKAPI; 2410007D12Rik; AU041393; CG22; Ckap1; CKAPI

Protein Construction:

A DNA sequence encoding the mature form of human TBCB (Q99426) (Met1-Ile244) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human TBCB consists of 259 amino acids and predicts a molecular mass of 29.2 KDa. It migrates as an approximately 33-37 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

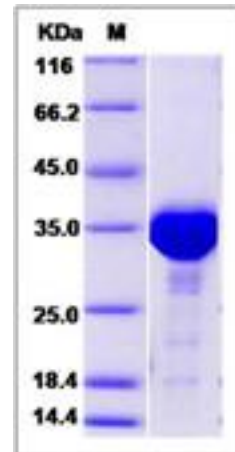
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Tubulin-folding cofactor B, also known as TBCB, belongs to the TBCB family. It contains 1 CAP-Gly domain and can be detected in most tissues. TBCB binds to alpha-tubulin folding intermediates after their interaction with cytosolic chaperonin in the pathway. The cytoskeleton is composed of 3 structural elements: actin filaments, microtubules, and intermediate filaments. TBCB is involved in regulation of tubulin heterodimer dissociation. It may function as a negative regulator of axonal growth.

References

1. Feingold EA, *et al.* (2003) Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. *Proc Natl Acad Sci.* 99(26):16899-903.
2. Tian G, *et al.* (1997) Tubulin subunits exist in an activated conformational state generated and maintained by protein cofactors. *J Cell Biol.* 138(4):821-32.
3. Wolz W, *et al.* (1997) A complex satellite DNA polymorphism flanking the human ryanodine receptor gene (RYR1). *Cytogenet Cell Genet.* 72(2-3):215-6.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>