

Recombinant human TBCB protein

Catalog Number: ATGP1581

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-244aa

UniProt No.

Q99426

NCBI Accession No.

NP_001272

Alternative Names

Tubulin folding cofactor B, CG22, CKAP1, CKAPI

PRODUCT SPECIFICATION

Molecular Weight

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

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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-

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terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHHH SGLVPRGSH MGSHEVTGV SAPTVTVFIS SSLNTRSEK RYSRSLTIAE FKCKLELLVG SPASCMELEL
YGVDDKFYSK LDQEDALLGS YPVDDGCRIH VIDHSGARLG EYEDVSRVEK YTISQEAYDQ RQDTVRSFLK RSKLGRYNEE
ERAQQEAEAA QRLAEEKAQA SSIPVGSRCV VRAAGQSPRR GTVMYVGLTD FKPGYWIGVR YDEPLGKNDG SVNGKRYFEC
QAKYGAFVKP AVVTVGDFPE EDYGLDEI

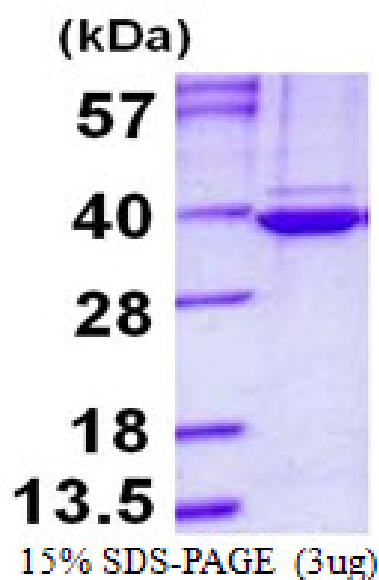
General References

Kortazar D., et al. (2007) Exp Cell Res. 313:425-436.

Tian G., et al. (1997) J Cell Biol. 138: 821-832.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.