

Recombinant human beta-III Tubulin protein

Catalog Number: ATGP1996

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-450aa

UniProt No.

Q13509

NCBI Accession No.

NP_006077

Alternative Names

Tubulin beta 3 class III, Tubulin, beta 3 class III, beta-4, CDCBM, CFEOM3A, TuBB4, TUBB3, FEOM3, fibrosis of extraocular muscles, congenital

PRODUCT SPECIFICATION

Molecular Weight

52.8 kDa (473aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

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, beta 3 class III, also known as TuBB3, is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha-chain. TuBB3 plays a critical role in proper axon guidance and maintenance. Recombinant human TuBB3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

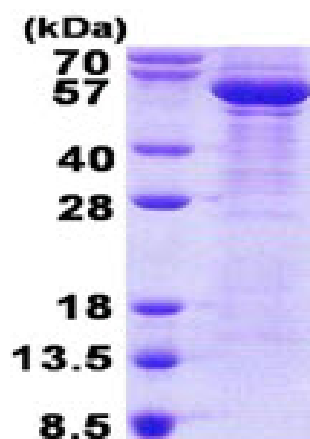
MGSSHHHHHH SSGLVPRGSH MGSMREIVHI QAGQCGNQIG AKFWEVISDE HGIDPSGNYV GDSDLQLERI SVYYNEASSH
KYVPRAILVD LEPGTMDSVR SGAFGHLFRP DNFIFGQSGA GNNWAKGHYT EGAELVDSVL DVVRKECENC DCLQGFQLTH
SLGGGTGSGM GTLLISKVRE EYPDRIMNTF SVVPSPKVS D TVVEPYNATL SIHQLVENTD ETYCIDNEAL YDICFRTLKL
ATPTYGDLNH LVSATMSGVT TSLRFPGQLN ADLRKLAVNM VPFRLHFFM PGFAPLTARG SQQYRALTVP ELTQQMFDAK
NMMAACDPRH GRYLTVATVF RGRMSMKEVD EQMLAIQSKN SSYFVEWIPN NVKVAVCDIP PRGLKMSSTF IGNSTAIQEL
FKRISEQFTA MFRRKAFLHW YTGEGMDEME FTEAESNMND LVSEYQQYQD ATAEEEGEMY EDDEEESEAQ GPK

General References

Katsetos C.D., et al. (2003) J. Child Neurol. 18:851-866
Tischfield M.A., et al. (2010) Cell. 140:74-87

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)