

# Recombinant human beta-III Tubulin protein

Catalog Number: ATGP1996

## PRODUCT INFORMATION

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### 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

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### 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

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### 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

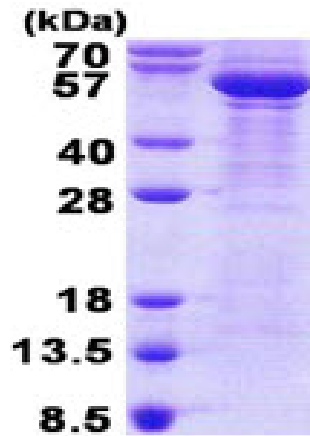
MGSSHHHHHH SSSLVPRGSH MGSMREIVHI QAGQCGNQIG AKFWEVISDE HGIDPSGNYV GSDSLQLERI SVYYNEASSH  
KYVPRAILVD LEPGTMDSVR SGAFGHLFRP DNFIGQSGA GNNWAKGHYT EGAELVDSVL DVVRKECENC DCLQGFQLTH  
SLGGGTGSGM GTLLISKVRE EYPDRIMNTF SVVPSPKVSD TVVEPYNATL SIHQLVENTD ETYCIDNEAL YDICFRTLKL  
ATPTYGDLNH LVSATMSGVT TSLRFPQQLN ADLRKLAIVNM VPFRLHFFM PGFAPLTARG SQQYRALTVP ELTQQMFDK  
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)