

AR50820PU-S

Human TUBB3 / TUBB4 (1-450, His-tag) - Purified

Alternate names:

Tubulin beta-3 chain, Tubulin beta-4, Tubulin beta-III

Quantity:

50 µg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q13509](#)

NCBI:

[NP_006077](#)

GeneID:

[10381](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Description:

Recombinant human TUBB3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SGLVPRGSH MGSMREIVHI QAGQCGNQIG AKFWEVISDE HGIDPSGNYV
GDSDLQLERI SVYYNEASSH KYVPRAILVD LEPGTMDSVR SGAFGHLFRP DNFIFGQSGA
GNNWAKGHYT EGAELVDSVL DVVRKECENC DCLQGFLTH SLGGGTGSGM GTLLISKVRE
EYPDRIMNTF SVVSPKVS D TVVEPYNATL SIHQLVENTD ETYCIDNEAL YDICFRTLKL
ATPTYGDLNH LVSATMSGVT TSLRFPQQLN ADLRKLAVNM VPFPRLHFFM PGFAPLTARG
SQQYRALTVP ELTQQMFDAK NMMAACDPRH GRYLTVATVF RGRMSMKEVD EQMLAIQSKN
SSYFVEWIPN NVKVAVCDIP PRGLKMSSTF IGNSTAIQEL FKRISQFETA MFRRKAFLHW
YTGEGBDEME FTEAESNMND LVSEYQQYQD ATAEEEGEMY EDDEEESEAQ GPK

Molecular weight: 52.8 kDa (473aa)

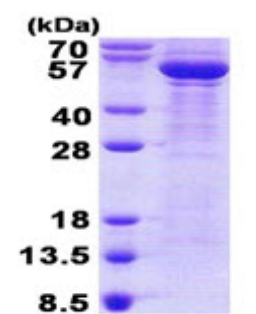
Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

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

Pictures:



15% SDS-PAGE (3ug)