

Recombinant Human TUBB3, His-tagged

Cat. No. TUBB3-7552H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TUBB3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-450aa
Antigen 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	52.8 kDa (473aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMREIVHI QAGQCGNQIG AKFWEVISDE HGIDPSGNYV GDSDLQLERI SVYYNEASSH KYVPAILVD LEPGTMDSVR SGAFGHLFRP DNFIGQSGA GNNWAKGHYT EGAELVDSVL DVVRKECENC DCLQGQFLTH SLGGGTGSGM GTLLISKVRE EYPDRIMNTF SVVPSPKVSD TVVEPYNATL SIHQLVENTD ETYCIDNEAL YDICFRTLKL ATPTYGDLNH LVSATMSGVT TSLRFPGQLN ADLRKLAVNM VPFPRLHFFM PGFAPLTARG

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SQQYRALTVP ELTQQMFDAK NMMAACDPRH GRYLTVATVF RGRMSMKEVD
EQMLAIQSKN SSYFVEWIPN NVKVAVCDIP PRGLKMSSTF IGNSTAIQEL
FKRISEQFTA MFRRKAFLHW YTGEGBDEME FTEAESNMND LVSEYQQYQD
ATAEEEGEMY EDDEEESEAQ GPK

Purity >90% as determined by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml

GENE INFORMATION

Gene Name TUBB3 tubulin, beta 3 class III [Homo sapiens]

Official Symbol TUBB3

Synonyms TUBB3; tubulin, beta 3 class III; tubulin, beta 3; tubulin beta-3 chain; beta 4; class III beta tubulin; tubulin beta-III; tubulin beta-4 chain; class III beta-tubulin; CDCBM; TUBB4; beta-4; CFEOM3A;

Gene ID 10381

mRNA Refseq NM_001197181

Protein Refseq NP_001184110

MIM 602661

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UniProt ID	Q13509
Chromosome Location	16q24.3
Pathway	Chaperonin-mediated protein folding, organism-specific biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Cooperation of Prefoldin and TriC/CCTin actin and tubulin folding, organism-specific biosystem; Diurnally regulated genes with circadian orthologs, organism-specific biosystem; Formation of tubulin folding intermediates by CCT/TriC, organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem;
Function	GTP binding; GTPase activity; nucleotide binding; structural molecule activity;

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