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 mantainance.
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 KYVPRAILVD LEPGTMDSVR SGAFGHLFRP DNFIFGQSGA GNNWAKGHYT EGAELVDSVL DVVRKECENC DCLQGFQLTH 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 YTGEGMDEME 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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