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**Product Data Sheet**


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Product Name: TUBB3 Human  
 Cat. No.: GP24914  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Beta-4; CDCBM; CFEOM3A; TUBB4 ; Tubulin beta-3 chain; Tubulin beta-4 chain; Tubulin beta-III; TUBB3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH 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 VPFPR LHFFM PGFAPLTARG SQQYRALTVP ELTQQMFDK NMMAACDPRH GRYLTVATVF RGRMSMKEVD EQMLAIQSKN SSYFVEWIPN NVKVAVCDIP PRGLKMSSTF IGNSTAIQEL FKRISQFTA MFRRKAFLHW YTGEGMDEME FTEAESNMND LVSEYQQYQD ATAEEEGEMY EDDEEESEAQ GPK.		
Formulation	TUBB3 protein solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

**Introduction**

Tubulin, beta 3 class III (TUBB3), which is the major constituent of microtubules, is primarily Expressed in neurons and is involved in neurogenesis and in axon guidance and maintenance. TUBB3 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.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

TUBB3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 473 amino acids (1-450 a.a.) and having a molecular mass of 52.8kDa. TUBB3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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