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**Product Data Sheet**


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Product Name: TUBG1 Human, Sf9

Cat. No.: GP24916

Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tubulin gamma-1 chain; Gamma-1-tubulin; Gamma-tubulin complex component 1; GCP-1; TUBG1; TUBG; Tubulin; Gamma 1; Gamma-1-Tubulin; TUBGCP1; CDCBM4.		
Amino Acid Sequence	MPREITLQL GQCGNQIGFE FWKQLCAEHG ISPEGIVEEF ATEGTDRKDV FFYQADDEHY IPRAVLLDLE PRVIHSILNS PYAKLYNPEN IYLSEHGGGA GNNWASGFSQ GEKIHEDIFD IIDREADGSD SLEGFVLCHS IAGGTGSGLG SYLLERLNDR YPKKLVQTY S VFPNQDEM SD VVQPYNSLL TLKRLTQNAD CVVLDNTAL NRIATDRLHI QNPSFSQINQ LVSTIMSAST TTLRYPGYMN NDLIGLIASL IPTPRHLFLM TGYTPLTTDQ SVASVRKTTV LDVMRRLQ KNVMVSTGRD RQTNHCYIAI LNIIQGEVDP TQVHKSLQRI RERKLANFIP WGPASIQVAL SRKSPYLP SA HRVSGLM MAN HTSISSLFER TCRQYDKLRK REAFLEQFRK EDMFKDNFDE MDTSREIVQQ LIDEYHAATR PDYISWGTQE QH H H H H H H H H.		
Formulation	TUBG1 protein solution (0.25mg/ml) contains 20mM Tris-HCl (pH 8.0) containing 40% glycerol, 0.1M NaCl, 2mM DTT and 50mM imidazole.		

**Introduction**

TUBG1 belongs to the tubulin superfamily. TUBG1 localizes to the centrosome and binds to microtubules to create the gamma-tubulin ring complex. TUBG1 facilitates the microtubule nucleation and is essential for microtubule formation and progression of the cell cycle.

**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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

TUBG1 produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 457 amino acids (1-451 a.a.) and having a molecular mass of 51.9kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). TUBG1 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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