

Recombinant Human Tubulin, Gamma 1, His-tagged

Cat. No. TUBG1-4743H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TUBG1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	Human
Description	TUBG1 is a member of the tubulin superfamily. This protein localizes to the centrosome where it binds to microtubules as part of a complex referred to as the gamma-tubulin ring complex. It mediates microtubule nucleation and is required for microtubule formation and progression of the cell cycle.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) 1M Urea, 5% Glycerol.
Molecular Weight	53.3 kDa (471aa)
Purity	> 85 % by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MPREITLQL GQCGNQIGFE FWKQLCAEHG ISPEGIVEEF ATEGTDRKDV FFYQADDEHY IPRAVLDDLE PRVIHSILNS PYAKLYNPEN IYLSEHGGGA GNNWASGFSQ GEKIHEDIFD IIDREADGSD SLEGFVLCHS IAGGTGSGLG SYLLERLNDR YPKKLVQTYS VFPNQDEMSD VVVQPYNSLL TLKRLTQNAD CVVVLDNTAL NRIATDRLHI QNPSFSQINQ

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LVSTIMSAST TTLRYPGYMN NDLIGLIASL IPTPRLHFLM TGYTPLTTDQ
SVASVRKTTV LDVMRRLQKP KNVMVSTGRD RQTNHCYIAI LNIIQGEVDP
TQVHKSLQRI RERKLANFIP WGPASIQVAL SRKSPYLPISA HRVSGLMAN
HTSISSLFER TCRQYDKLRK REAFLEQFRK EDMFKDNFDE MDTREIVQQ
LIDEYHAATR PDYISWGTQE Q

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.

Pathways

Cell Cycle, Mitotic; Centrosome maturation; G2/M Transition; Loss of Nlp from mitotic centrosomes; Loss of proteins required for interphase microtubule organization from the centrosome; Mitotic G2-G2/M phases; PLK1 signaling events; Recruitment of NuMA to mitotic centrosomes; Recruitment of mitotic centrosome proteins and complexes

GENE INFORMATION

Gene Name

TUBG1 tubulin, gamma 1 [Homo sapiens]

Official Symbol

TUBG1

Synonyms

TUBG1; TUBG; GCP-1; TUBGCP1; tubulin gamma-1 chain; gamma-1-tubulin; tubulin, gamma polypeptide; gamma-tubulin complex component 1; tubulin, gamma 1; Gamma-tubulin complex component 1; Gamma-1-tubulin

Gene ID

7283

mRNA Refseq

NM_001070

Protein Refseq

NP_001061

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MIM	191135
UniProt ID	P23258
Chromosome Location	17q21
Function	GTP binding; GTPase activity; nucleotide binding; protein binding; structural constituent of cytoskeleton

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