

Tubulin beta-1 chain (TUBB1), Recombinant Protein

Cat RP05079

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg
(Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1
mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Species Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Tubulin beta-1 chain (TUBB1)

Product Gene Name

TUBB1 recombinant protein

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

MREILHVQGG QCGNQIGSKF WEVICDEHGV DPTGRYNGDS ADLQLERINV YYNEASGGRY VPRAVLMDLE
PGTMSIRS G PYGQIFRPDN FVFGQSGAGN NWAKGHYTEG AELIDAVLDV VRKEAENCDC LQGFQVCHSL
GGGTGSGMGT LLISKIREEY PDRMMLTFSV FPSPKVSDTV VEPYNATLSV HQLVENADEC MVL DNEALYD
ICFRTLKLST PSFGDLNHLI SATMSGVTCS LRFPGQLNSD LRKLAVNLIP FPRLHFFMVG FAPLTSRGSQ
QYISLTVPEL TQQMWDAKNM MCAADPRHGR YLTASAMFRG KMSTKEVDEQ ILNVQKNKSS YFVEWIPNNV
KSSVCDIPPT GIKMASTFVG NSTSIQEMFR RVSEQFTAMF RRKAFLHWYT GEGMDEMEFT EAESNMNDLV
SEYQQYQDAT ADEEDEYDEE EEQVYES

Sequence Positions

1-447, Full length protein

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

50,217 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week.
Repeated freezing and thawing is not recommended.

Protein Family

Tubulin

NCBI Accession

NP_177706.1

NCBI GI

15222873

NCBI GenBank Nucleotide

NM_106228.3

NCBI GeneID

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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(Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

843911 mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1
mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

NCBI Official Full Name

tubulin beta-1 chain

NCBI Official Symbol

TUB1

NCBI Official Synonym Symbols

F10A5.3; F10A5_3; tubulin beta-1 chain

NCBI Protein Information

tubulin beta-1 chain

NCBI Summary

beta tubulin gene downregulated by phytochrome A (phyA)-mediated far-red light high-irradiance and the phytochrome B (phyB)-mediated red light high-irradiance responses

UniProt Gene Name

TUBB1

UniProt Synonym Gene Names

TUB1

UniProt Protein Name

Tubulin beta-1 chain

UniProt Synonym Protein Names

Beta-1-tubulin

UniProt Primary Accession

P12411

UniProt Secondary Accession

Q8GZ16; Q9SYQ7

UniProt Related Accession

P12411

UniProt Comments

Tubulin 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.

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