Tubulin Beta-3 Chain (TUBB3) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Tubulin beta-3 chain (Tubb3), Recombinant Protein
Full Product Name	Recombinant Rat Tubulin beta-3 chain (Tubb3)
Product Gene Name	Tubb3 recombinant protein
Product Synonym Gene Name	Tubb3
Sequence	MREIVHIQAG QCGNQIGAKF WEVISDEHGI DPSGNYVGDS DLQLERISVY YNEASSHKYV PRAILVDLEP GTMDSVRSGA FGHLFRPDNF IFGQSGAGNN WAKGHYTEGA ELVDSVLDVV RKECENCDCL QGFQLTHSLG GGTGSGMGTL LISKVREEYP DRIMNTFSVV PSPKVSDTVV EPYNATLSIH QLVENTDETY CIDNEALYDI CFRTLKLATP TYGDLNHLVS ATMSGVTTSL RFPGQLNADL RKLAVNMVPF PRLHFFMPGF APLTARGSQQ YRALTVPELT QQMFDAKNMM AACDPRHGRY LTVATVFRGR MSMKEVDEQM LAIQSKNSSY FVEWIPNNVK VAVCDIPPRG LKMSSTFIGN STAIQELFKR ISEQFTAMFR RKAFLHWYTG EGMDEMEFTE AESNMNDLVS EYQQYQDATA EEEGEMYEDD DEESEAQGPK
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	50,419 Da
Sequence Positions	1-450, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q4QRB4
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Tubb3 recombinant protein	MBS1436087 is a recombinant protein targeting Tubb3. Also known as Recombinant Rat Tubulin beta-3 chain (Tubb3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Tubb3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Tubb3. It may not necessarily be applicable to this product.

NCBI GI #	145966774
NCBI GeneID	246118
NCBI Accession #	NP_640347.2
UniProt Primary Accession #	Q4QRB4

UniProt Secondary Accession #	Q8K5B6
UniProt Related Accession #	Q4QRB4
GenBank Nucleotide #	NM_139254.2
NCBI Official Full Name	tubulin beta-3 chain
NCBI Official Synonym Full Names	tubulin, beta 3 class III
NCBI Official Symbol	Tubb3
UniProt Protein Name	Tubulin beta-3 chain
UniProt Synonym Protein Names	Neuron-specific class III beta-tubulin
Protein Family	Tubulin
UniProt Gene Name	Tubb3
NCBI Protein Information	tubulin beta-3 chain
UniProt Comments for Tubb3	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. TUBB3 plays a critical role in proper axon guidance and mantainance ().
Research Articles on Tubb3	**1.** PAX3 could inhibit the neuronal differentiation of neural stem celland the expression of TUBB3.
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