Tau-Tubulin Kinase 2 (TTBK2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Tau-tubulin kinase 2 (Ttbk2), Recombinant Protein
Full Product Name	Recombinant Mouse Tau-tubulin kinase 2 (Ttbk2) , partial
Product Gene Name	Ttbk2 recombinant protein
Product Synonym Gene Name	Ttbk2
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	132,256 Da
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 Q3UVR3
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Ttbk2 recombinant protein	This gene encodes a serine-threonine kinase that putatively phosphorylates tau and tubulin proteins. Mutations in this gene cause spinocerebellar ataxia type 11 (SCA11); a neurodegenerative disease characterized by progressive ataxia and atrophy of the cerebellum and brainstem.
Other Notes	Small volumes of Ttbk2 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.
Searchable Terms for Ttbk2 purchase	MBS1380666 is a recombinant protein targeting Ttbk2. Also known as Recombinant Mouse Tau-tubulin kinase 2 (Ttbk2) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Ttbk2. It may not necessarily be applicable to this product.

NCBI GI #	67906807
NCBI GeneID	140810
NCBI Accession #	NP_001020027.1
UniProt Primary Accession #	Q3UVR3
UniProt Secondary Accession #	Q3TSR6; Q3UFW0; Q571D1; Q8BKA4; Q924U8; A2AW12
UniProt Related Accession #	Q3UVR3
GenBank Nucleotide #	NM_001024856.2

NCBI Official Full Name	tau-tubulin kinase 2 isoform 2
NCBI Official Synonym Full Names	tau tubulin kinase 2
NCBI Official Symbol	Ttbk2
NCBI Official Synonym Symbols	TTK; Ttbk; Ttbk1; AI326283; mKIAA0847; 2610507N02Rik; B930008N24Rik
UniProt Protein Name	Tau-tubulin kinase 2
UniProt Synonym Protein Names	Protein bartleby
Protein Family	Tau-tubulin kinase
UniProt Gene Name	Ttbk2
UniProt Synonym Gene Names	Bby; Kiaa0847; Ttbk1
NCBI Protein Information	tau-tubulin kinase 2
UniProt Comments for Ttbk2	Serine/threonine kinase that acts as a key regulator of ciliogenesis: controls the initiation of ciliogenesis by binding to the distal end of the basal body and promoting the removal of CCP110, which caps the mother centriole, leading to the recruitment of IFT proteins, which build the ciliary axoneme. Has some substrate preference for proteins that are already phosphorylated on a Tyr residue at the +2 position relative to the phosphorylation site. Able to phosphorylate tau on serines in vitro.
Research Articles on Ttbk2	**1.** Study shows that TTBK2 is a dedicated regulator of the initiation of ciliogenesis in vivo; TTBK2 acts at the distal end of the basal body, where it promotes the removal of CP110, which caps the mother centriole, and promotes recruitment of intraflagellar transport proteins.
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