Tubulin--Tyrosine Ligase (TTL) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Tubulin--tyrosine ligase (TTL), Recombinant Protein
Full Product Name	Recombinant Human Tubulin--tyrosine ligase (TTL)
Product Gene Name	TTL recombinant protein
Product Synonym Gene Name	TTL
Sequence	MYTFVVRDEN SSVYAEVSRL LLATGHWKRL RRDNPRFNLM LGERNRLPFG RLGHEPGLVQ LVNYYRGADK LCRKASLVKL IKTSPELAES CTWFPESYVI YPTNLKTPVA PAQNGIQPPI SNSRTDEREF FLASYNRKKE DGEGNVWIAK SSAGAKGEGI LISSEASELL DFIDNQGQVH VIQKYLEHPL LLEPGHRKFD IRSWVLVDHQ YNIYLYREGV LRTASEPYHV DNFQDKTCHL TNHCIQKEYS KNYGKYEEGN EMFFKEFNQY LTSALNITLE SSILLQIKHI IRNCLLSVEP AISTKHLPYQ SFQLFGFDFM VDEELKVWLI EVNGAPACAQ KLYAELCQGI VDIAISSVFP PPDVEQPQTQ PAAFIKL
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	43,212 Da
Sequence Positions	1-377, 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.
OMIM	608291
3D Structure	ModBase 3D Structure for Q8NG68
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for TTL recombinant protein	MBS1313935 is a recombinant protein targeting TTL. Also known as Recombinant Human Tubulin--tyrosine ligase (TTL). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of TTL 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 TTL. It may not necessarily be applicable to this product.

NCBI GI #	24308516
NCBI GeneID	150465
NCBI Accession #	NP_714923.1

UniProt Primary Accession #	Q8NG68
UniProt Secondary Accession #	Q585T3; Q7Z302; Q8N426
UniProt Related Accession #	Q8NG68
GenBank Nucleotide #	NM_153712.4
NCBI Official Full Name	tubulin--tyrosine ligase
NCBI Official Synonym Full Names	tubulin tyrosine ligase
NCBI Official Symbol	TTL
UniProt Protein Name	Tubulin--tyrosine ligase
Protein Family	TITAN-like protein
UniProt Gene Name	TTL
UniProt Synonym Gene Names	TTL
NCBI Protein Information	tubulin--tyrosine ligase
NCBI Summary for TTL	TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is detyrosinated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin detyrosination and tyrosination (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008]
UniProt Comments for TTL	Catalyzes the post-translational addition of a tyrosine to the C-terminal end of detyrosinated alpha-tubulin.
Research Articles on TTL	**1.** Observational study of gene-disease association. (HuGE Navigator)
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