# Trna Dimethylallyltransferase, Mitochondrial (Spac343.15) (SPAC343.15) Schizosaccharomyces Pombe Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | tRNA dimethylallyltransferase, mitochondrial (SPAC343.15), Recombinant Protein |
| **Full Product Name** | Recombinant Schizosaccharomyces pombe tRNA dimethylallyltransferase, mitochondrial (SPAC343.15) |
| **Product Gene Name** | SPAC343.15 recombinant protein |
| **Product Synonym Gene Name** | SPAC343.15 |
| **Sequence** | MLKPLCVVIG TTGAGKSDLA VQLAKRFGSQ VINADSMQIY RGFDTITNKI TVEEQENVHH RLMSFLNFDK EYSVPEFERD ASRVIDEIHS QGKIPIVVGG THYYLQSLLF EDTTLSAIDK LTNDSSPSKP PHPDSHILDD DPSAMLSYLK KIDPVMAEQW HPRDTRKIRR SLEIYFHTGR PPSEIYSEQK MKSSGSKLRY KSLIFWAFAD SLVLMPRLDK RVDKMLSHGL VDEIKSMKSL AESEKFSPDF TRGIWQCIGF KEFMPWFEAP SDIVFNDCLE RMKVSTRQYA KSQKKWIQSR FLPMCLAQQD LSPSSILFST TNTTDLNNWE EQVEKACRVF QYFFYNGDAI APSADDQHAF EKARDYLSIM NGRQSQKKKF VCEECLDKRG DPFTVIGEDA FNVHIKSRKH KTTVRRKKER AERQIRLKNI GILK |
| **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** | 50,121 Da |
| **Sequence Positions** | 1-434, Full length |
| **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 Q9UT75 |
| **Species** | Schizosaccharomyces pombe (strain 972 / 24843) (Fission yeast) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for SPAC343.15 recombinant protein** | MBS1477665 is a recombinant protein targeting SPAC343.15. Also known as Recombinant Schizosaccharomyces pombe tRNA dimethylallyltransferase, mitochondrial (SPAC343.15). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of SPAC343.15 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 SPAC343.15. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 19114348 |
| **NCBI GeneID** | 2543065 |

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| **NCBI Accession #** | NP_593436.1 |
| **UniProt Primary Accession #** | Q9UT75 |
| **GenBank Nucleotide #** | NM_001018869.2 |
| **NCBI Official Full Name** | tRNA isopentenyltransferase (predicted) |
| **NCBI Official Symbol** | tit1 |
| **UniProt Protein Name** | tRNA dimethylallyltransferase |
| **UniProt Synonym Protein Names** | Isopentenyl-diphosphate: tRNA isopentenyltransferase; IPP transferase; IPPT; tRNA isopentenyltransferase; IPTase |
| **UniProt Gene Name** | tit1 |
| **UniProt Synonym Gene Names** | mod5; IPP transferase; IPPT; IPTase |
| **NCBI Protein Information** | tRNA isopentenyltransferase (predicted) |
| **UniProt Comments for SPAC343.15** | Catalyzes the transfer of a dimethylallyl group onto the adenine at position 37 of both cytosolic and mitochondrial tRNAs, leading to the formation of N6-(dimethylallyl)adenosine (i6A). |
| **Research Articles on SPAC343.15** | **1.** show that TRIT1 can also modify tRNA(Trp)(CCA) consistent with broad recognition similar to Tit1p |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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