Trna 2-Thiocytidine Biosynthesis Protein Ttca (ttcA) Nitrosospira Multiformis Recombinant Protein

PRODUCT OVERVIEW

Product Name	tRNA 2-thiocytidine biosynthesis protein TtcA (ttcA), Recombinant Protein
Full Product Name	Recombinant Nitrosospira multiformis tRNA 2-thiocytidine biosynthesis protein TtcA (ttcA)
Product Gene Name	ttcA recombinant protein
Product Synonym Gene Name	ttcA
Sequence	MGTGIEMLSR KEQHNANKLH KRLRRLVGTA IADFNMIESG DRVMVCLSGG KDSYALLDIL RSLQAHAATQ FELIAVNLDQ KQPGFPEHVL PNYLTSIGMP FRIVEQDTYS VVKRLIPEGK TTCSLCSRLR RGVLYRVADE LGATKIALGH HRDDILETLL LNLFHGGKLK TMPPKLVSDD GKHIVIRPLA YCKEKDLAAY AEMENFPIIP CNLCGSQKNM QRQVVKEMLQ QWDKKFPGRL ENMFSSLQNI QPSHLLDSSL YDFHGLKTGN GPVVDGDRAF DPEPFEPGVE ELLSLNKD
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	33,481 Da
Sequence Positions	1-298, 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 Q2YBQ4
Species	Nitrosospira multiformis (strain 25196 / NCIMB 11849)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ttcA recombinant protein	MBS1420930 is a recombinant protein targeting ttcA. Also known as Recombinant Nitrosospira multiformis tRNA 2-thiocytidine biosynthesis protein TtcA (ttcA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ttcA 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 ttcA. It may not necessarily be applicable to this product.

NCBI GI #	499699137
NCBI Accession #	WP_011379871.1
UniProt Primary Accession #	Q2YBQ4
GenBank Nucleotide #	WP_011379871.1

NCBI Official Full Name	tRNA 2-thiocytidine(32) synthetase TtcA
UniProt Protein Name	tRNA-cytidine(32) 2-sulfurtransferase
UniProt Synonym Protein Names	Two-thiocytidine biosynthesis protein A
Protein Family	tRNA 2-thiocytidine biosynthesis protein
UniProt Gene Name	ttcA
UniProt Comments for ttcA	Catalyzes the ATP-dependent 2-thiolation of cytidine in position 32 of tRNA, to form 2-thiocytidine (s2C32). The sulfur atoms are provided by the cysteine/cysteine desulfurase (IscS) system.
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