Trna 2-Thiocytidine Biosynthesis Protein Ttca (ttcA) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	tRNA 2-thiocytidine biosynthesis protein TtcA (ttcA), Recombinant Protein
Full Product Name	Recombinant Escherichia coli tRNA 2-thiocytidine biosynthesis protein TtcA (ttcA)
Product Gene Name	ttcA recombinant protein
Sequence	MQENQQITKK EQYNLNKLQK RLRRNVGEAI ADFNMIEEGD RIMVCLSGGK DSYTMLEILR NLQQSAPINF SLVAVNLDQK QPGFPEHVLP EYLEKLGVEY KIVEENTYGI VKEKIPEGKT TCSLCSRLRR GILYRTATEL GATKIALGHH RDDILQTLFL NMFYGGKMKG MPPKLMSDDG KHIVIRPLAY CREKDIQRFA DAKAFPIIPC NLCGSQPNLQ RQVIADMLRD WDKRYPGRIE TMFSAMQNVV PSHLCDTNLF DFKGITHGSE VVNGGDLAFD REEIPLQPAC WQPEEDENQL DELRLNVVEV K
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	35,561 Da
Sequence Positions	1-311, 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 P76055
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ttcA recombinant protein	MBS1135039 is a recombinant protein targeting ttcA. Also known as Recombinant Escherichia coli 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 #	16129305
NCBI GeneID	948967
NCBI Accession #	NP_415860.1
UniProt Primary Accession #	P76055
UniProt Secondary Accession #	Q2MBE9; Q47558
GenBank Nucleotide #	NC_000913.3

NCBI Official Full Name	tRNA s(2)C32 thioltransferase, iron sulfur cluster protein
NCBI Official Symbol	ttcA
NCBI Official Synonym Symbols	ECK1341; JW1338; stcA; ydaO
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
NCBI Protein Information	tRNA s(2)C32 thioltransferase, iron sulfur cluster protein
NCBI Summary for ttcA	The attachment site of Rac is a 26 bp repeat region flanking Rac: [More information is available at EcoGene: EG13357]. tRNA from a ttcA mutant lacks a component suggested to be s2C . [More information is available at EcoCyc: G6675].
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.
Research Articles on ttcA	**1.** The studies demonstrated that the TtcA enzyme contains a redox-active and oxygen-sensitive [4Fe-4S] cluster, chelated by only three cysteine residues and absolutely essential for activity.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/trna-2-thiocytidine-biosynthesis-protein-ttca-ttca/1135039