# Probable Trna Threonylcarbamoyladenosine Biosynthesis Protein Gcp (gcp) Dechloromonas Aromatica Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Probable tRNA threonylcarbamoyladenosine biosynthesis protein Gcp (gcp), Recombinant Protein |
| **Full Product Name** | Recombinant Dechloromonas aromatica Probable tRNA threonylcarbamoyladenosine biosynthesis protein Gcp (gcp) |
| **Product Gene Name** | gcp recombinant protein |
| **Product Synonym Gene Name** | gcp |
| **Sequence** | MLILGVESSC DETGIALYDS EAGLLSHALY SQVAMHAEYG GVVPELASRD HIRRVVPLLR EALGQAGKML DEVDAVAYTR GPGLAGALLV GCAFAEALAL AIDKPTIPVH HLEGHLLSPL LSSDPPTFPF VALLVSGGHT QLMKVTGVGE YELLGETLDD AAGEAFDKSA KLLGLPYPGG ALLSKLAEQG TPGVHELPRP MLHSGDLSFS FSGLKTAVLT LVREHADAMS DEFKANAARA FQEAIVEVLV KKSLKAMKQT GLKQLVVAGG VGANKQLRTT LNDEAKRKRF RVYYPELEFC TDNGAMIALA GCLRLQSGSP SKAAGSFAVQ PRWPLMEMSV SPTK |
| **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** | 36,499 Da |
| **Sequence Positions** | 1-344, 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 Q47IP4 |
| **Species** | Dechloromonas aromatica (strain RCB) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for gcp recombinant protein** | MBS1451392 is a recombinant protein targeting gcp. Also known as Recombinant Dechloromonas aromatica Probable tRNA threonylcarbamoyladenosine biosynthesis protein Gcp (gcp). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of gcp 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 gcp. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 752553440 |
| **NCBI Accession #** | WP_041224676.1 |
| **UniProt Primary Accession #** | Q47IP4 |

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| **GenBank Nucleotide #** | WP_041224676.1 |
| **NCBI Official Full Name** | tRNA (adenosine(37)-N6)-threonylcarbamoyltransferase complex transferase subunit TsaD |
| **UniProt Protein Name** | tRNA N6-adenosine threonylcarbamoyltransferase |
| **UniProt Synonym Protein Names** | N6-L-threonylcarbamoyladenine synthase |
| **UniProt Gene Name** | tsaD |
| **UniProt Synonym Gene Names** | t(6)A synthase |
| **UniProt Comments for gcp** | Required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t6A37) in tRNAs that read codons beginning with adenine. Is involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37, together with TsaE and TsaB. TsaD likely plays a direct catalytic role in this reaction. |
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