Probable Trna Threonylcarbamoyladenosine Biosynthesis Protein Gcp (gcp) Streptococcus Pyogenes Serotype M28 Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable tRNA threonylcarbamoyladenosine biosynthesis protein Gcp (gcp), Recombinant Protein
Full Product Name	Recombinant Streptococcus pyogenes serotype M28 Probable tRNA threonylcarbamoyladenosine biosynthesis protein Gcp (gcp)
Product Gene Name	gcp recombinant protein
Product Synonym Gene Name	gcp
Sequence	MTDRYILAVE SSCDETSVAI LKNESTLLSN VIASQVESHK RFGGVVPEVA SRHHVEVITT CFEDALQEAG ISASDLSAVA VTYGPGLVGA LLVGLAAAKA FAWANHLPLI PVNHMAGHLM AAREQKPLVY PLIALLVSGG HTELVYVPEP GDYHIIGETR DDAVGEAYDK VGRVMGLTYP AGREIDQLAH KGQDTYHFPR AMITEDHLEF SFSGLKSAFI NLHHNAKQKG NELILEDLCA SFQAAVLDIL LAKTKKALSR YPAKMLVVAG GVAANQGLRD RLAQEITHIE VVIPKLRLCG DNAGMIALAA AIEYDKQHFA NMSLNAKPSL AFDQFPDSFV IN
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	36,930 Da
Sequence Positions	1-342, 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 Q48RG7
Species	Streptococcus pyogenes serotype M28
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gcp recombinant protein	MBS1357108 is a recombinant protein targeting gcp. Also known as Recombinant Streptococcus pyogenes serotype M28 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.

NCBI GI #	499604415
NCBI Accession #	WP_011285149.1
UniProt Primary Accession #	Q48RG7

GenBank Nucleotide #	WP_011285149.1
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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