Probable Trna Threonylcarbamoyladenosine Biosynthesis Protein Gcp (gcp) Roseobacter Denitrificans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable tRNA threonylcarbamoyladenosine biosynthesis protein Gcp (gcp), Recombinant Protein
Full Product Name	Recombinant Roseobacter denitrificans Probable tRNA threonylcarbamoyladenosine biosynthesis protein Gcp (gcp)
Product Gene Name	gcp recombinant protein
Product Synonym Gene Name	gcp; RD1_0470
Product Synonym Names	Probable tRNA threonylcarbamoyladenosine biosynthesis protein Gcp; t(6)A37 threonylcarbamoyladenosine biosynthesis protein
Sequence	MGRTQTVLAL ESSCDDTAAA VLRKGATGET QVLSSIVRGQ DSLHAAYGGV VPEIAARAHA EILDICVEDA LQAAQTSLHD VDAIAVTAGP GLIGGVVSGV MCAKGLALAT GKPLYGINHL AGHALTPRLT DNVPFPYLML LVSGGHCQFL LIKGPDDFKR IGGTIDDAPG EAFDKIARLL ALPQPGGPSV ERSARQGDAK RFSLPRPLLD RPGCDMSFSG LKTAVLRVRD GLVQDQGGLY PQDQADLSAG FQAAVVDVLA EKTSRAMQQY QQLSPTTATL CVAGGVAANM AIRTRLETVA RDNGAVFVAP PLALCTDNAA MIGFAALERM ADHPPDDLTL AARPRWPLDS KSPAMLGSGK KGAKA
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	37,962 Da
Sequence Positions	1-365aa; 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 Q16CW3
Species	Roseobacter denitrificans (strain 33942 / OCh 114) (Erythrobacter sp. (strain OCh 114)) (Roseobacter denitrificans)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gcp recombinant protein	MBS1386089 is a recombinant protein targeting gcp. Also known as Recombinant Roseobacter denitrificans 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 #	110677859

NCBI GeneID	4198150
NCBI Accession #	YP_680866.1
UniProt Primary Accession #	Q16CW3
UniProt Related Accession #	Q16CW3
GenBank Nucleotide #	NC_008209.1
NCBI Official Full Name	DNA-binding/iron metalloprotein/AP endonuclease
NCBI Official Symbol	gcp
UniProt Protein Name	tRNA N6-adenosine threonylcarbamoyltransferase
UniProt Synonym Protein Names	N6-L-threonylcarbamoyladenine synthase; t(6)A37 threonylcarbamoyladenosine biosynthesis protein TsaD; tRNA threonylcarbamoyladenosine biosynthesis protein TsaD
UniProt Gene Name	tsaD
UniProt Synonym Gene Names	t(6)A synthase
UniProt Entry Name	TSAD_ROSDO
NCBI Protein Information	DNA-binding/iron metalloprotein/AP endonuclease
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.
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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