# 7-Carboxy-7-Deazaguanine Synthase (queE) Bacillus Subtilis Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | 7-carboxy-7-deazaguanine synthase (queE), Recombinant Protein |
| **Full Product Name** | Recombinant Bacillus subtilis 7-carboxy-7-deazaguanine synthase (queE) |
| **Product Gene Name** | queE recombinant protein |
| **Sequence** | MAKGIPVLEI FGPTIQGEGM VIGQKTMFVR TAGCDYSCSW CDSAFTWDGS AKKDIRWMTA EEIFAELKDI GGDAFSHVTI SGGNPALLKQ LDAFIELLKE NNIRAALETQ GTVYQDWFTL IDDLTISPKP PSSKMVTNFQ KLDHILTSLQ ENDRQHAVSL KVVIFNDEDL EFAKTVHKRY PGIPFYLQVG NDDVHTTDDQ SLIAHLLGKY EALVDKVAVD AELNLVRVLP QLHTLLWGNK RGV |
| **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** | 27,122 Da |
| **Sequence Positions** | 1-243, 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 O31677 |
| **Species** | Bacillus subtilis (strain 168) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for queE recombinant protein** | MBS1259768 is a recombinant protein targeting queE. Also known as Recombinant Bacillus subtilis 7-carboxy-7-deazaguanine synthase (queE). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of queE 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 queE. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 16078438 |
| **NCBI GeneID** | 939290 |
| **NCBI Accession #** | NP_389257.1 |
| **UniProt Primary Accession #** | O31677 |
| **UniProt Related Accession #** | O31677 |
| **GenBank Nucleotide #** | NC_000964.3 |

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| **NCBI Official Full Name** | 7-carboxy-7-deazaguanine synthase |
| **NCBI Official Symbol** | queE |
| **UniProt Protein Name** | 7-carboxy-7-deazaguanine synthase |
| **UniProt Synonym Protein Names** | Queuosine biosynthesis protein QueE |
| **Protein Family** | 7-carboxy-7-deazaguanine synthase |
| **UniProt Gene Name** | queE |
| **UniProt Synonym Gene Names** | CDG synthase |
| **NCBI Protein Information** | 7-carboxy-7-deazaguanine synthase |
| **UniProt Comments for queE** | Catalyzes the complex heterocyclic radical-mediated conversion of 6-carboxy-5,6,7,8-tetrahydropterin (CPH4) to 7-carboxy-7-deazaguanine (CDG), a step common to the biosynthetic pathways of all 7-deazapurine-containing compounds. |
| **Research Articles on queE** | **1.** the differential activation of BsQueE by flavodoxin homologues may reside in the details of the interaction between the flavodoxin and the radical SAM enzyme. |
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