DNA Gyrase Inhibitor Yacg (yacG) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA gyrase inhibitor YacG (yacG), Recombinant Protein
Full Product Name	Recombinant Escherichia coli DNA gyrase inhibitor YacG (yacG)
Product Gene Name	yacG recombinant protein
Sequence	MSETITVNCP TCGKTVVWGE ISPFRPFCSK RCQLIDLGEW AAEEKRIPSS GDLSESDDWS EEPKQ
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	7,306 Da
Sequence Positions	1-65, 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 B1IR78
Species	Escherichia coli (strain 8739 / DSM 1576 / Crooks)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for yacG recombinant protein	MBS1149166 is a recombinant protein targeting yacG. Also known as Recombinant Escherichia coli DNA gyrase inhibitor YacG (yacG). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of yacG 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 yacG. It may not necessarily be applicable to this product.

NCBI GI #	445927187
NCBI Accession #	WP_000005042.1
UniProt Primary Accession #	B1IR78
GenBank Nucleotide #	WP_000005042.1
NCBI Official Full Name	MULTISPECIES: DNA gyrase inhibitor YacG
UniProt Protein Name	DNA gyrase inhibitor YacG
Protein Family	DNA gyrase inhibitor
UniProt Gene Name	yacG

UniProt Comments for yacG	Inhibits all the catalytic activities of DNA gyrase by preventing its interaction with DNA. Acts by binding directly to the C-terminal domain of GyrB, which probably disrupts DNA binding by the gyrase.
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