Transcription Elongation Factor Grea (greA) Geobacillus Kaustophilus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Transcription elongation factor GreA (greA), Recombinant Protein
Full Product Name	Recombinant Geobacillus kaustophilus Transcription elongation factor GreA (greA)
Product Gene Name	greA recombinant protein
Product Synonym Gene Name	greA
Sequence	MANEKQYPMT KEGKEKLEQE LEYLKTVKRK EVVERIKIAR GFGDLSENSE YDAAKDEQAF VESRIQMLEN MIRNAVIIEE DKENPDVVSL GKSVTFIELP DGEEETYTIV GSAEADPFEG KISNDSPIAK SLLGRRVGDE VTVQTPGGEM LVKIVAVK
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	17,667 Da
Sequence Positions	1-158, Full length
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 Q5KWV4
Species	Geobacillus kaustophilus (strain HTA426)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for greA recombinant protein	MBS1437035 is a recombinant protein targeting greA. Also known as Recombinant Geobacillus kaustophilus Transcription elongation factor GreA (greA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of greA 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 greA. It may not necessarily be applicable to this product.

NCBI GI #	499551242
NCBI Accession #	WP_011232025.1
UniProt Primary Accession #	Q5KWV4
GenBank Nucleotide #	WP_011232025.1
NCBI Official Full Name	MULTISPECIES: transcription elongation factor GreA

UniProt Protein Name	Transcription elongation factor GreA
UniProt Synonym Protein Names	Transcript cleavage factor GreA
Protein Family	Transcription elongation factor
UniProt Gene Name	greA
UniProt Comments for greA	Necessary for efficient RNA polymerase transcription elongation past template-encoded arresting sites. The arresting sites in DNA have the property of trapping a certain fraction of elongating RNA polymerases that pass through, resulting in locked ternary complexes. Cleavage of the nascent transcript by cleavage factors such as GreA or GreB allows the resumption of elongation from the new 3'terminus. GreA releases sequences of 2 to 3 nucleotides.
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