Bacterial RNA Polymerase Inhibitor (2) (T7P16) Enterobacteria Phage T7 Recombinant Protein

PRODUCT OVERVIEW

Product Name	Bacterial RNA polymerase inhibitor (2) (T7p16), Recombinant Protein
Full Product Name	Recombinant Enterobacteria phage T7 Bacterial RNA polymerase inhibitor (2)
Product Gene Name	T7p16 recombinant protein
Sequence	MSNVNTGSLS VDNKKFWATV ESSEHSFEVP IYAETLDEAL ELAEWQYVPA GFEVTRVRPC VAPK
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	7,175 Da
Sequence Positions	1-64, 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 P03704
Species	Enterobacteria phage T7 (Bacteriophage T7)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for T7p16 recombinant protein	MBS1230508 is a recombinant protein targeting T7p16. Also known as Recombinant Enterobacteria phage T7 Bacterial RNA polymerase inhibitor (2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of T7p16 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 T7p16. It may not necessarily be applicable to this product.

NCBI GI #	9627441
NCBI GeneID	1261073
NCBI Accession #	NP_041969.1
UniProt Primary Accession #	P03704
GenBank Nucleotide #	NC_001604.1
NCBI Official Full Name	bacterial RNA polymerase inhibitor
NCBI Official Symbol	T7p16

UniProt Protein Name	Bacterial RNA polymerase inhibitor
UniProt Synonym Protein Names	Gene product 2; Gp2
UniProt Gene Name	2
UniProt Synonym Gene Names	Gp2
NCBI Protein Information	inhibitor of host bacterial RNA polymerase
UniProt Comments for T7p16	Acts as an inhibitor of bacterial RNA polymerase by interacting with RpoC subunit and thus preventing promoter recognition by RpoE. Non-DNA-binding transcription factor that plays a role in the transcriptional switch that abolishes transcription of the viral early genes (class I) by the host RNA polymerase but allows transcription of late genes (class II and class III) by T7 RNA polymerase.
Research Articles on T7p16	**1.** Overexpression of recombinant inhibitor of host bacterial RNA polymerase (Gp2) in exponentially growing E. coli induces changes in RNAP behavior at single molecule level and induces global alterations in the transcriptional programme.
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