Transcription Antitermination Protein Nusg (nusG) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Transcription antitermination protein NusG (nusG), Recombinant Protein
Full Product Name	Recombinant Buchnera aphidicola subsp. Acyrthosiphon pisum Transcription antitermination protein NusG (nusG)
Product Gene Name	nusG recombinant protein
Product Synonym Gene Name	nusG; BU039
Product Synonym Names	Transcription antitermination protein NusG
Sequence	MHESQKKRWY VLQAFSGFES RVAQSIREHV KLNQMEDLFG EVMVPSQEVV EIRGGQRRKS EYKFFPGYVL IQMKMTDSTW HLIRNVPKVL GFIGGKSDKP SPISDKEVEI IINRLRKIGN KPRPKTLFEP GEMIRVNDGP FADFNGVVEE VDYEKSRLKV SVSIFGRSTP VELDFRQVEK N
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	20,960 Da
Sequence Positions	1-181aa; 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 P57151
Species	Buchnera aphidicola subsp. Acyrthosiphon pisum (strain APS) (Acyrthosiphon pisum symbiotic bacterium)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for nusG recombinant protein	MBS1253822 is a recombinant protein targeting nusG. Also known as Recombinant Buchnera aphidicola subsp. Acyrthosiphon pisum Transcription antitermination protein NusG (nusG). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of nusG 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 nusG. It may not necessarily be applicable to this product.

NCBI GI #	15616668
NCBI GeneID	1109547
NCBI Accession #	NP_239880.1
UniProt Primary Accession #	P57151

UniProt Related Accession #	P57151
GenBank Nucleotide #	NC_002528.1
NCBI Official Full Name	transcription antitermination protein NusG
NCBI Official Symbol	nusG
UniProt Protein Name	Transcription termination/antitermination protein NusG
Protein Family	Transcription termination/antitermination protein
UniProt Gene Name	nusG
UniProt Entry Name	NUSG_BUCAI
NCBI Protein Information	transcription antitermination protein NusG
UniProt Comments for nusG	Participates in transcription elongation, termination and antitermination. In the absence of Rho, increases the rate of transcription elongation by the RNA polymerase (RNAP), probably by partially suppressing pausing. In the presence of Rho, modulates most Rho-dependent termination events by interacting with the RNAP to render the complex more susceptible to the termination activity of Rho. May be required to overcome a kinetic limitation of Rho to function at certain terminators. Also involved in ribosomal RNA transcriptional antitermination.
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