Sulfurtransferase Tusa (tusA) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Sulfurtransferase TusA (tusA), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Sulfurtransferase TusA (tusA)
Product Gene Name	tusA recombinant protein
Sequence	MTDLFSSPDH TLDALGLRCP EPVMMVRKTV RNMQPGETLL IIADDPATTR DIPGFCTFME HELVAKETDG LPYRYLIRKG G
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	9,095 Da
Sequence Positions	1-81, 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 C4ZW19
Species	Escherichia coli (strain K12 / MC4100 / BW2952)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for tusA recombinant protein	MBS1252739 is a recombinant protein targeting tusA. Also known as Recombinant Escherichia coli Sulfurtransferase TusA (tusA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of tusA 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 tusA. It may not necessarily be applicable to this product.

NCBI GI #	446052766
NCBI Accession #	WP_000130621.1
UniProt Primary Accession #	C4ZW19
GenBank Nucleotide #	WP_000130621.1
NCBI Official Full Name	MULTISPECIES: sulfurtransferase TusA
UniProt Protein Name	Sulfur carrier protein TusA
UniProt Synonym Protein Names	Sulfur mediator TusA

Protein Family	Sulfurtransferase
UniProt Gene Name	tusA
UniProt Comments for tusA	Sulfur carrier protein involved in sulfur trafficking in the cell. Part of a sulfur-relay system required for 2-thiolation during synthesis of 2-thiouridine of the modified wobble base 5-methylaminomethyl-2-thiouridine (mnm5s2U) in tRNA. Interacts with IscS and stimulates its cysteine desulfurase activity. Accepts an activated sulfur from IscS, which is then transferred to TusD, and thus determines the direction of sulfur flow from IscS to 2-thiouridine formation. Also appears to be involved in sulfur transfer for the biosynthesis of molybdopterin.
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