Elongation Factor Tu-A (tufA) Thermus Thermophilus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Elongation factor Tu-A (tufA), Recombinant Protein
Full Product Name	Recombinant Thermus thermophilus Elongation factor Tu-A (tufA)
Product Gene Name	tufA recombinant protein
Product Synonym Gene Name	tufA
Sequence	AKGEFVRTKP HVNVGTIGHV DHGKTTLTAA LTYVAAAENP NVEVKDYGDI DKAPEERARG ITINTAHVEY ETAKRHYSHV DCPGHADYIK NMITGAAQMD GAILVVSAAD GPMPQTREHI LLARQVGVPY IVVFMNKVDM VDDPELLDLV EMEVRDLLNQ YEFPGDEVPV IRGSALLALE QMHRNPKTRR GENEWVDKIW ELLDAIDEYI PTPVRDVDKP FLMPVEDVFT ITGRGTVATG RIERGKVKVG DEVEIVGLAP ETRRTVVTGV EMHRKTLQEG IAGDNVGVLL RGVSREEVER GQVLAKPGSI TPHTKFEASV YVLKKEEGGR HTGFFSGYRP QFYFRTTDVT GVVQLPPGVE MVMPGDNVTF TVELIKPVAL EEGLRFAIRE GGRTVGAGVV TKILE
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	44,782 Da
Sequence Positions	2-406, 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 Q5SHN6
Species	Thermus thermophilus (strain HB8 / 27634 / DSM 579)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for tufA recombinant protein	MBS1409195 is a recombinant protein targeting tufA. Also known as Recombinant Thermus thermophilus Elongation factor Tu-A (tufA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of tufA 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 tufA. It may not necessarily be applicable to this product.

NCBI GI #	499548064
NCBI Accession #	WP_011228847.1
UniProt Primary Accession #	Q5SHN6
GenBank Nucleotide #	WP_011228847.1

NCBI Official Full Name	elongation factor Tu-A
UniProt Protein Name	Elongation factor Tu-A
Protein Family	Elongation factor
UniProt Gene Name	tufA
UniProt Synonym Gene Names	EF-Tu-A
UniProt Comments for tufA	This protein promotes the GTP-dependent binding of aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis.EF-Tu-GDP binds to the acceptor arm of tmRNA by interacting with its acceptor arm, suggesting that GTP hydrolysis by EF-Tu is essential for tmRNA function.
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