Trna Sulfurtransferase (thiI) Shigella Flexneri Recombinant Protein

PRODUCT OVERVIEW

Product Name	tRNA sulfurtransferase (thiI), Recombinant Protein
Full Product Name	Recombinant Shigella flexneri tRNA sulfurtransferase (thiI)
Product Gene Name	thiI recombinant protein
Product Synonym Gene Name	thiI
Sequence	MKFIIKLFPE ITIKSQSVRL RFIKILTGNI RNVLKHYDET LAVVRHWDNI EVRAKDENQR LTIRDALTRI PGIHHILEVE DVPFTDMHDI FEKALVQYRD QLEGKTFCVR VKRRGKHDFS SIDVERYVGG GLNQHIESAR VKLTNPDVTV HLEVEDDRLL LIKGRYEGIG GFPIGTQEDV LSLISGGFDS GVSSYMLMRR GCRVHYCFFN LGGAAHEIGV RQVAHYLWNR FGSSHRVRFV AINFEPVVGE ILEKIDDGQM GVILKRMMVR AASKVAERYG VQALVTGEAL GQVSSQTLTN LRLIDNVSDT LILRPLISYD KEHIINLARQ IGTEDFARTM PEYCGVISKS PTVKAVKSKI EAEEEKFDFS ILDKVVEEAN NVDIREIAQQ TEQEVVEVET VNGFGPNDVI LDIRSVDEQE DKPLKVEGID VVSLPFYKLS TKFGDLDQNK TWLLWCERGV MSRLQALYLR EQGFNNVKVY RP
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	54,989 Da
Sequence Positions	1-482, 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 Q83SG1
Species	Shigella flexneri
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for thiI recombinant protein	MBS1349787 is a recombinant protein targeting thiI. Also known as Recombinant Shigella flexneri tRNA sulfurtransferase (thiI). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of thiI 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 thiI. It may not necessarily be applicable to this product.

NCBI GI #	446591358
NCBI Accession #	WP_000668704.1
UniProt Primary Accession #	Q83SG1
UniProt Secondary Accession #	Q7UDJ6

GenBank Nucleotide #	WP_000668704.1
NCBI Official Full Name	MULTISPECIES: tRNA 4-thiouridine(8) synthase ThiI
UniProt Protein Name	tRNA sulfurtransferase
UniProt Synonym Protein Names	Sulfur carrier protein ThiS sulfurtransferase
Protein Family	Probable tRNA sulfurtransferase
UniProt Gene Name	thiI
UniProt Comments for thiI	Catalyzes the ATP-dependent transfer of a sulfur to tRNA to produce 4-thiouridine in position 8 of tRNAs, which functions as a near-UV photosensor. Also catalyzes the transfer of sulfur to the sulfur carrier protein ThiS, forming ThiS-thiocarboxylate. This is a step in the synthesis of thiazole, in the thiamine biosynthesis pathway. The sulfur is donated as persulfide by IscS.
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