Trna Sulfurtransferase (thiI) Blochmannia Pennsylvanicus Recombinant Protein

PRODUCT OVERVIEW

Product Name	tRNA sulfurtransferase (thiI), Recombinant Protein
Full Product Name	Recombinant Blochmannia pennsylvanicus tRNA sulfurtransferase (thiI)
Product Gene Name	thiI recombinant protein
Product Synonym Gene Name	thiI
Sequence	MKIVIKLSPE ITIKSRAIRI FFIKILITNI KTILKKNNES ASIIRNWDYL EVICNHSKYQ KICAMLINIP GIHHLLLIKK HMFRSLQDIY EKIILSLNYE IQLSGKSFCV RVKRCGKHNF TSQEVEHYLG NKLCQNIGNI RVNLTKPEKT IYLEIKDNQL FIIIKRYEGL GGFPIGTQQE MLSLISGGFD SAVASYMLIR RGCKVNYCFF NLGGDMHTVE VCRVIYFLWN KFSSSHKIKF ISIDFSEVIK EITAKIKDNQ IGVVLKRMMI RSASLVANRY KITALITGEV LGQVSSQTLS NLTLIDSVSD HVIFRPLIAY DKEKIIDLAR KIGTEILSKS VPEYCGIISK KSTAKTTKQL IEFEENNFDF TVLNRAVSQS YVIDVQNIPD QIINQHVFQV ETKKILDSTD VVLDIRTEIE QEKNPLYLNN IEIKKIPFYN LIDQFSKLDP NKIYLLYCDH GIMSRLQVMY LHRQGFSNVK IYRPPR
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	56,164 Da
Sequence Positions	1-486, 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 Q493G5
Species	Blochmannia pennsylvanicus (strain BPEN)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for thiI recombinant protein	MBS1380411 is a recombinant protein targeting thiI. Also known as Recombinant Blochmannia pennsylvanicus 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 #	499602050
NCBI Accession #	WP_011282784.1
UniProt Primary Accession #	Q493G5
GenBank Nucleotide #	WP_011282784.1

NCBI Official Full Name	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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