Spermidine Synthase (speE) Thermus Thermophilus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Spermidine synthase (speE), Recombinant Protein
Full Product Name	Recombinant Thermus thermophilus Spermidine synthase (speE)
Product Gene Name	speE recombinant protein
Product Synonym Gene Name	speE
Sequence	MDYGMYFFEH VTPYETLVRR MERVIASGKT PFQDYFLFES KGFGKVLILD KDVQSTERDE YIYHETLVHP AMLTHPEPKR VLIVGGGEGA TLREVLKHPT VEKAVMVDID GELVEVAKRH MPEWHQGAFD DPRAVLVIDD ARAYLERTEE RYDVVIIDLT DPVGEDNPAR LLYTVEFYRL VKAHLNPGGV MGMQAGMILL THHRVHPVVH RTVREAFRYV RSYKNHIPGF FLNFGFLLAS DAFDPAAFSE GVIEARIRER NLALRHLTAP YLEAMFVLPK DLLEALEKET MVSTDQNPFY VTPEGEARQA PYKG
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	36,006 Da
Sequence Positions	1-314, 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 Q5SK28
Species	Thermus thermophilus (strain HB8 / 27634 / DSM 579)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for speE recombinant protein	MBS1346174 is a recombinant protein targeting speE. Also known as Recombinant Thermus thermophilus Spermidine synthase (speE). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of speE 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 speE. It may not necessarily be applicable to this product.

NCBI GI #	499486278
NCBI Accession #	WP_011172918.1
UniProt Primary Accession #	Q5SK28
UniProt Secondary Accession #	P83816
GenBank Nucleotide #	WP_011172918.1

NCBI Official Full Name	polyamine aminopropyltransferase
UniProt Protein Name	Polyamine aminopropyltransferase
UniProt Synonym Protein Names	Agmatine aminopropyltransferase
Protein Family	Polyamine aminopropyltransferase
UniProt Gene Name	speE
UniProt Synonym Gene Names	TAAPT
UniProt Comments for speE	Involved in the biosynthesis of polyamines which are thought to support the growth of thermophilic microorganisms under high-temperature conditions. It seems that long-chain and branched-chain of polyamines effectively stabilize DNA and RNA, respectively. Catalyzes the irreversible transfer of a propylamine group from the amino donor S-adenosylmethioninamine (decarboxy-AdoMet) to agmatine to yield N1-aminopropylagmatine. An efficient aminopropyltransferase activity has been also observed with norspermidine which produces thermine, and spermidine which produces spermine and thermospermine. The aminopropyl activity with homospermidine, mitsubishine, thermine, 1,3-diaminopropane, putrescine (1,4-diaminobutane), spermine and caldopentamine are very low. The reaction involves a nucleophilic attack on the C-3 methylene of the propylamine moiety adjacent to the positively charged sulfur of decarboxy-AdoMet.
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