Spermidine Synthase (speE) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Spermidine synthase (speE), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Spermidine synthase (speE) , partial
Product Gene Name	speE recombinant protein
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	32,321 Da
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 P09158
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for speE recombinant protein	MBS1157039 is a recombinant protein targeting speE. Also known as Recombinant Escherichia coli Spermidine synthase (speE) , partial. 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 #	16128114
NCBI GeneID	947726
NCBI Accession #	NP_414663.1
UniProt Primary Accession #	P09158
GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	spermidine synthase (putrescine aminopropyltransferase)
NCBI Official Symbol	speE
NCBI Official Synonym Symbols	ECK0120; JW0117
UniProt Protein Name	Polyamine aminopropyltransferase
UniProt Synonym Protein Names	Cadaverine aminopropyltransferase

Protein Family	Polyamine aminopropyltransferase
UniProt Gene Name	speE
UniProt Synonym Gene Names	SPDSY
NCBI Protein Information	spermidine synthase (putrescine aminopropyltransferase)
NCBI Summary for speE	Paraquat toxicity observed in cells deficient in spermidine. [More information is available at EcoGene: EG10963].
UniProt Comments for speE	Involved in the biosynthesis of polyamines which play a significant role in the structural and functional organization in the chromoid of E.coli by compacting DNA and neutralizing negative charges. Catalyzes the irreversible transfer (ping-pong mechanism) of a propylamine group from the amino donor S-adenosylmethioninamine (decarboxy-AdoMet) to putrescine (1,4-diaminobutane) to yield spermidine. Cadaverine (1,5-diaminopentane) and spermidine can also be used as the propylamine acceptor.
Research Articles on speE	**1.** Crystal structure of E. coli SpeE reveals that it has a large and unique substrate-binding cleft that may account for its lower amine substrate specificity.
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