Probable Endopeptidase Spr (spr) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable endopeptidase Spr (spr), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Probable endopeptidase Spr (spr)
Product Gene Name	spr recombinant protein
Sequence	CSANNTAKNM HPETRAVGSE TSSLQASQDE FENLVRNVDV KSRIMDQYAD WKGVRYRLGG STKKGIDCSG FVQRTFREQF GLELPRSTYE QQEMGKSVSR SNLRTGDLVL FRAGSTGRHV GIYIGNNQFV HASTSSGVII SSMNEPYWKK RYNEARRVLS RS
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	21,040 Da
Sequence Positions	27-188, 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 P0AFV4
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for spr recombinant protein	MBS1018132 is a recombinant protein targeting spr. Also known as Recombinant Escherichia coli Probable endopeptidase Spr (spr). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of spr 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 spr. It may not necessarily be applicable to this product.

NCBI GI #	16130113
NCBI GeneID	946686
NCBI Accession #	NP_416680.1
UniProt Primary Accession #	P0AFV4
UniProt Secondary Accession #	O08016; P77685
GenBank Nucleotide #	NC_000913.3

NCBI Official Full Name	murein DD-endopeptidase, space-maker hydrolase, mutational suppressor of prc thermosensitivity, outer membrane lipoprotein, weak murein LD-carboxypeptidase
NCBI Official Symbol	mepS
NCBI Official Synonym Symbols	ECK2169; JW2163; spr; yeiV
UniProt Protein Name	Murein DD-endopeptidase MepS/Murein LD-carboxypeptidase
UniProt Synonym Protein Names	Lipoprotein Spr; Murein hydrolase MepS
Protein Family	Sex peptide receptor
UniProt Gene Name	mepS
UniProt Synonym Gene Names	spr; yeiV
NCBI Protein Information	murein DD-endopeptidase, space-maker hydrolase, mutational suppressor of prc thermosensitivity, outer membrane lipoprotein, weak murein LD-carboxypeptidase
NCBI Summary for spr	prc deletions are TS at low salt, suppressible by spr mutations; spr prc+ strains are also TS at low salt, which is suppressible by multicopy expression of PBP7 (PbpG). [More information is available at EcoGene: EG14076]. spr is believed to encode a lipoprotein. spr deletion mutants are thermosensitive for growth at low osmolarity, but they suppress the thermosensitivity of prc deletion mutants when the two are combined . nlpI mutations suppress the thermosensitivity of spr mutations . [More information is available at EcoCyc: G7147].
UniProt Comments for spr	A murein DD-endopeptidase with specificity for D-Ala-meso-diaminopimelic acid (mDAP) cross-links. Its role is probably to cleave D-Ala-mDAP cross-links to allow insertion of new glycans and thus cell wall expansion. Functionally redundant with MepM and MepH. Also has weak LD-carboxypeptidase activity on L-mDAP-D-Ala peptide bonds. Partially suppresses a prc disruption mutant.
Research Articles on spr	**1.** Prc deficiency may alter bacterial morphology by impairing control of Spr activity at high salinity.
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