Crossover Junction Endodeoxyribonuclease Rusa (rusA) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Crossover junction endodeoxyribonuclease rusA (rusA), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Crossover junction endodeoxyribonuclease rusA (rusA)
Product Gene Name	rusA recombinant protein
Product Synonym Gene Name	rusA
Sequence	MNTYSITLPW PPSNNRYYRH NRGRTHVSAE GQAYRDNVAR IIKNAMLDIG LAMPVKIRIE CHMPDRRRRD LDNLQKAAFD ALTKAGFWLD DAQVVDYRVV KMPVTKGGRL ELTITEMGNE
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	13,846 Da
Sequence Positions	1-120, 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 Q1RCY4
Species	Escherichia coli (strain UTI89 / UPEC)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rusA recombinant protein	MBS1311049 is a recombinant protein targeting rusA. Also known as Recombinant Escherichia coli Crossover junction endodeoxyribonuclease rusA (rusA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of rusA 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 rusA. It may not necessarily be applicable to this product.

NCBI GI #	447022456
NCBI Accession #	WP_001099712.1
UniProt Primary Accession #	Q1RCY4
GenBank Nucleotide #	WP_001099712.1
NCBI Official Full Name	MULTISPECIES: hypothetical protein
UniProt Protein Name	Crossover junction endodeoxyribonuclease RusA

UniProt Synonym Protein Names	Holliday junction nuclease RusA; Holliday junction resolvase
Protein Family	Crossover junction endodeoxyribonuclease
UniProt Gene Name	rusA
UniProt Comments for rusA	Endonuclease that resolves Holliday junction intermediates made during homologous genetic recombination and DNA repair. Exhibits sequence and structure-selective cleavage of four-way DNA junctions, where it introduces symmetrical nicks in two strands of the same polarity at the 5' side of CC dinucleotides. Corrects the defects in genetic recombination and DNA repair associated with inactivation of RuvAB or RuvC ().
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