Crossover Junction Endodeoxyribonuclease Ruvc (ruvC) Moorella Thermoacetica Recombinant Protein

PRODUCT OVERVIEW

Product Name	Crossover junction endodeoxyribonuclease RuvC (ruvC), Recombinant Protein
Full Product Name	Recombinant Moorella thermoacetica Crossover junction endodeoxyribonuclease RuvC (ruvC)
Product Gene Name	ruvC recombinant protein
Product Synonym Gene Name	ruvC
Sequence	MLILGIDPGT AIVGYGLVEA RAGQTRALVY DCIRTPAGED PCRRLATIYA GIRELIERLQ PETMAVEELF FNKNSKTALA VGQARGVILL AAAHTGLPVA EYTPLEVKQA VAGFGRAPKE QVQRMVQALL GLEEKPRPDD VADALAVAVC HASFAPWRQR EKEVAGR
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	18,047 Da
Sequence Positions	1-167, 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 Q2RHT5
Species	Moorella thermoacetica (strain 39073)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ruvC recombinant protein	MBS1314684 is a recombinant protein targeting ruvC. Also known as Recombinant Moorella thermoacetica Crossover junction endodeoxyribonuclease RuvC (ruvC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ruvC 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 ruvC. It may not necessarily be applicable to this product.

NCBI GI #	499712470
NCBI Accession #	WP_011393204.1
UniProt Primary Accession #	Q2RHT5
GenBank Nucleotide #	WP_011393204.1
NCBI Official Full Name	crossover junction endodeoxyribonuclease RuvC

UniProt Protein Name	Crossover junction endodeoxyribonuclease RuvC
UniProt Synonym Protein Names	Holliday junction nuclease RuvC
Protein Family	Crossover junction endodeoxyribonuclease
UniProt Gene Name	ruvC
UniProt Comments for ruvC	Nuclease that resolves Holliday junction intermediates in genetic recombination. Cleaves the cruciform structure in supercoiled DNA by nicking to strands with the same polarity at sites symmetrically opposed at the junction in the homologous arms and leaves a 5'-terminal phosphate and a 3'-terminal hydroxyl group.
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