Holliday Junction ATP-Dependent DNA Helicase Ruva (ruvA) Acaryochloris Marina Recombinant Protein

PRODUCT OVERVIEW

Product Name	Holliday junction ATP-dependent DNA helicase RuvA (ruvA), Recombinant Protein
Full Product Name	Recombinant Acaryochloris marina Holliday junction ATP-dependent DNA helicase RuvA (ruvA)
Product Gene Name	ruvA recombinant protein
Sequence	MIGFLQGYVV SLQQTSTHRT LLTLDVNQVG YDLYVPSRIR QHLPPDQEQM RVFTHLQVRE DQMVLFGFAV VAERDLFRQL IAVSGIGPQL ALALIDTLGL QDLVQAIVNS NTKMLVKTPG VGAKTAERIA LELRSKLAEW RDQAGLKTLP SAGPIDSVQE DVEMTLLALG YTSQEVMRAL QAVGQNTALA KNSDTEAWIR EAIAWLSQ
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	23,011 Da
Sequence Positions	1-208, 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 B0CAE7
Species	Acaryochloris marina (strain MBIC 11017)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ruvA recombinant protein	MBS1228834 is a recombinant protein targeting ruvA. Also known as Recombinant Acaryochloris marina Holliday junction ATP-dependent DNA helicase RuvA (ruvA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ruvA 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 ruvA. It may not necessarily be applicable to this product.

NCBI GI #	501113795
NCBI Accession #	WP_012163319.1
UniProt Primary Accession #	B0CAE7
GenBank Nucleotide #	WP_012163319.1
NCBI Official Full Name	Holliday junction branch migration protein RuvA
UniProt Protein Name	Holliday junction ATP-dependent DNA helicase RuvA

Protein Family	Holliday junction ATP-dependent DNA helicase
UniProt Gene Name	ruvA
UniProt Comments for ruvA	The RuvA-RuvB complex in the presence of ATP renatures cruciform structure in supercoiled DNA with palindromic sequence, indicating that it may promote strand exchange reactions in homologous recombination. RuvAB is a helicase that mediates the Holliday junction migration by localized denaturation and reannealing. RuvA stimulates, in the presence of DNA, the weak ATPase activity of RuvB.
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