Holliday Junction ATP-Dependent DNA Helicase Ruva (ruvA) Geobacter Metallireducens Recombinant Protein

PRODUCT OVERVIEW

Product Name	Holliday junction ATP-dependent DNA helicase RuvA (ruvA), Recombinant Protein
Full Product Name	Recombinant Geobacter metallireducens Holliday junction ATP-dependent DNA helicase RuvA (ruvA)
Product Gene Name	ruvA recombinant protein
Product Synonym Gene Name	ruvA
Sequence	MIARLTGMLA HKSPDAIIID VNGVGYRVQI PFSTYYELPD EGKTVSLSIY THVKEDAISL FGFRTVAEKE FFQVLISVSG IGPKMARDIL SNIQPDELAG AILQGNLVRL SSIPGIGKKT AERLVLELKE KVRKMDVAPS TKEAAPSEAP PEVADDVASA LVNLGYKEAV VRKVLAEMAI ESGASTEAVL RQALKILMK
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	21,507 Da
Sequence Positions	1-199, 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 Q39XN7
Species	Geobacter metallireducens (strain GS-15 / 53774 / DSM 7210)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ruvA recombinant protein	MBS1418949 is a recombinant protein targeting ruvA. Also known as Recombinant Geobacter metallireducens 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 #	490649467
NCBI Accession #	WP_004514462.1
UniProt Primary Accession #	Q39XN7
GenBank Nucleotide #	WP_004514462.1

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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