# Holliday Junction ATP-Dependent DNA Helicase Ruva (ruvA) Shewanella Loihica Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Holliday junction ATP-dependent DNA helicase RuvA (ruvA), Recombinant Protein |
| **Full Product Name** | Recombinant Shewanella loihica Holliday junction ATP-dependent DNA helicase RuvA (ruvA) |
| **Product Gene Name** | ruvA recombinant protein |
| **Sequence** | MIGRLRGLLV EKQAPEVLIE TGGVGYEVQM PLTSFYELPE LNQEAVIYTH FVVREDAQLL YGFITKQERA LFRLLIKTNG VGPKLALTIL SGMTAGEFVK CVEHDDIATL VKLPGVGKKT AERLLVEMRD KLKSLMEASH GNEREFVLQS NYTPAPVVNT AEEDAISALL ALGYKPAQAS KAVSSVFEEG MDSETLIKAS LKSML |
| **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** | 22,515 Da |
| **Sequence Positions** | 1-205, 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 A3QEP4 |
| **Species** | Shewanella loihica (strain BAA-1088 / PV-4) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for ruvA recombinant protein** | MBS1232120 is a recombinant protein targeting ruvA. Also known as Recombinant Shewanella loihica 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.

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| **NCBI GI #** | 500192667 |
| **NCBI Accession #** | WP_011865874.1 |
| **UniProt Primary Accession #** | A3QEP4 |
| **GenBank Nucleotide #** | WP_011865874.1 |
| **NCBI Official Full Name** | Holliday junction branch migration protein RuvA |
| **UniProt Protein Name** | Holliday junction ATP-dependent DNA helicase RuvA |

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| **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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