Holliday Junction ATP-Dependent DNA Helicase Ruvb (ruvB) Rubrobacter Xylanophilus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Holliday junction ATP-dependent DNA helicase RuvB (ruvB), Recombinant Protein
Full Product Name	Recombinant Rubrobacter xylanophilus Holliday junction ATP-dependent DNA helicase RuvB (ruvB)
Product Gene Name	ruvB recombinant protein
Product Synonym Gene Name	ruvB
Sequence	MEEMDDFTVR RGEREDITGA AGPPEERPLD PAAFEEDDEP TLRPRTLDEF VGQERLKENL RIFVEAAKQR GEPLDHMLLA GPPGLGKTSL CRILAAEMGV QLHPTSGPSL ERAGDMAAIL TSLEEGDFLF IDEIHRLNRQ IEEVLYPAME DFAIDIVLGQ GPSARTIRMD LPRFTLVGAT TRTGLMTKPL LDRFGFSARL DYYEPHELEK IVVRNARILG VPITEGGARQ LARRSRGTPR VANRLLKRVR DYAQVVGDGT IDEETANAAL EMQGVDHLGL DRTDREYLSL IIEKFDGGPV GVGTLSVALG EARDTVEDVY EPYLLQSGLI QRTSRGRVAT RHAYAHLGFP VRDGG
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	39,339 Da
Sequence Positions	1-355, 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 Q1AWE0
Species	Rubrobacter xylanophilus (strain DSM 9941 / NBRC 16129)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ruvB recombinant protein	MBS1318777 is a recombinant protein targeting ruvB. Also known as Recombinant Rubrobacter xylanophilus Holliday junction ATP-dependent DNA helicase RuvB (ruvB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ruvB 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 ruvB. It may not necessarily be applicable to this product.

NCBI GI #	499883571
NCBI Accession #	WP_011564305.1
UniProt Primary Accession #	Q1AWE0

GenBank Nucleotide #	WP_011564305.1
NCBI Official Full Name	Holliday junction branch migration DNA helicase RuvB
UniProt Protein Name	Holliday junction ATP-dependent DNA helicase RuvB
Protein Family	Holliday junction ATP-dependent DNA helicase
UniProt Gene Name	ruvB
UniProt Comments for ruvB	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.
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