

Recombinant E. coli Holliday Junction DNA Helicase RuvB

Cat. No. RuvB-2665E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E. coli Holliday Junction DNA Helicase RuvB is expressed in <i>E. coli</i> .
Species	E.coli
Source	E.coli
Description	E. coli RuvB protein forms a complex with RuvA protein at the late stage of homologous recombination and recombination repair and binds specifically to the Holliday structure which is the intermediate of recombination, allowing the migration of Holliday junction using ATP hydrolysis energy and expands the heteroduplex region. RuvB forms a hexamer ring structure and surrounds the double chain DNA and covers RuvA tetramer bound to the Holliday junction from both sides. RuvB is a DNA motor protein which possesses the ATPase activity, activated by DNA and RuvA protein. Its molecular weight is 37 kD and forms a dimer in solution in the physiological condition.
Form	50% glycerol, 10 mM Tris-HCl (pH7.5), 2 mM EDTA, 100 mM NaCl, 5 mM mercaptoethanol.
Purity	RuvB protein over 90% by SDS-PAGE (CBB staining).
Usage	1) Studies on homologous recombination mechanism. 2) To make use of the motor protein function that specifically migrates the Holliday junction by forming a complex with RuvA (branch-migration protein).

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Concentration	1.0 mg/ml (determined by BCA method).
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Storage	-20°C.
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GENE INFORMATION

Gene Name	ruvB Holliday junction DNA helicase RuvB [Escherichia coli ED1a]
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Synonyms	ruvB; Holliday junction DNA helicase RuvB
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Gene ID	7143279
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Protein Refseq	YP_002398010
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UniProt ID	B7MVZ1
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Pathway	Homologous recombination
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