

# Recombinant E. coli Holliday Junction DNA Helicase RuvA

**Cat. No.** RuvA-2664E    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant E. coli Holliday Junction DNA Helicase RuvA is expressed in E. coli. MW= 22 KDa.                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | E. coli RuvA protein binds specifically to the Holliday structure which is the intermediate of recombination at the late stage of homologous recombination and recombination pair and forms a complex with RuvB motor protein allowing the migration of Holliday junction using ATP hydrolysis energy and expands the heteroduplex region. In solution, it forms a tetramer and binds to the cross-like DNA of the Holliday junction from below and above holding it in between. |
| <b>Form</b>             | 50% glycerol, 10 mM Tris-HCl (pH7.5), 2 mM EDTA, 100 mM NaCl, 5 mM mercaptoethanol.                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | RuvA protein over 90% by SDS-PAGE (CBB staining).                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Usage</b>            | 1) Studies on homologous recombination mechanism. 2) For SNP analysis. 3) Incorporation to DNA circuit. 4) Recognition and identification of cross-like DNA.                                                                                                                                                                                                                                                                                                                     |
| <b>Concentration</b>    | 2.7 mg/ml (determined by BCA method).                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>          | -20°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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## GENE INFORMATION

|           |                                                                     |
|-----------|---------------------------------------------------------------------|
| Gene Name | ruvA Holliday junction DNA helicase RuvA [ Escherichia coli UT189 ] |
|-----------|---------------------------------------------------------------------|

|          |                                           |
|----------|-------------------------------------------|
| Synonyms | ruvA; Holliday junction DNA helicase RuvA |
|----------|-------------------------------------------|

|         |         |
|---------|---------|
| Gene ID | 3989992 |
|---------|---------|

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|----------------|-----------|
| Protein Refseq | YP_541072 |
|----------------|-----------|

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