

RuvA Protein, E. coli, Recombinant (His & SUMO)

General Information

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| Synonyms: | ruvA;Holliday junction branch migration complex subunit RuvA |
| Protein Construction: | 1-203 aa |
| Species: | E. coli |
| Expression Host: | E. coli |
| Accession: | P0A809 |
| Molecular Weight: | 38.1 kDa (predicted) |
| AA Sequence: | MIGRLRGIIIIEKQPPLVLIIEVGGVGYEVHMPMTCFYELPEAGQEAIVFTHFVVREDAQLLYGFNNKQERTLFKELI KTNGVGPKLALAILSGMSAQQFVNAVEREEVGALVKLPGIGKKAERLIVEMKDRFKGLHGDLFTPAADLVLT SPASPATDDAEQEAVAALVALGYKPQEASRMVSKIARPDASSETLIREALRAAL |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | > 90% as determined by SDS-PAGE. |
| Endotoxin: | < 1.0 EU/μg of the protein as determined by the LAL method. |
| Formulation: | Tris-based buffer, 50% glycerol |

Preparation and Storage

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| Reconstitution: | A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information. |
| Stability & Storage: | Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small> |

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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. Binds both single- and double-stranded DNA (dsDNA). Binds preferentially to supercoiled rather than to relaxed dsDNA.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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