Recombinant E. coli RuvB

Cat. No. RuvB-132E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length recombinant protein expressed in E.coli and highly purified by combined chromatography.
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	Over 90% by SDS-PAGE (CBB staining)
Applications	1) Functional studies in vitro; RuvA and RuvB form a complex that promotes Holiday junction (a recombination intermediatae) branch-migration by using ATP hydrolysis energy. RuvB also has ATPase activity which is stimulated by RuvA and DNA. 2)

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	SDS-PAGE3) Standard antigen for western blotting and ELISA
Storage	Sent at 4℃or at -20℃ and upon arrival, centrifuge briefly and store at -20℃ or -80℃ for longer period

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