

Active Recombinant E. coli RecQ DNA Helicase

Cat. No. recQ-130E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The product is over-produced as a recombinant protein and highly purified by several steps of chromatography. A single band is observed by SDS-PAGE at 64 kD.
Species	E.coli
Description	E. coli RecQ helicase contributes to the genomic stability as the prototype of RecQ family DNA helicases, mutations of which genes are associated with premature aging and cancer susceptibility, known as Bloom's and Werner's syndromes. RecQ helicase functions in both early and late stages of homologous recombination and unwinds DNAs with particular structures, such as the fork structure for replication, the Holliday junction which is an intermediate of recombination, telomere, quadruplex G4-DNA, etc. In replication fork, it forms a complex with topoisomerase III and regulates DNA topology.
Form	50% glycerol, 20 mM Tris-HCl (pH 7.5), 1 mM EDTA, 50 mM KCl, 1 mM DTT
Bio-activity	Unwinding duplex DNA, dependent on ATP. DNA-dependent ATPase
Purity	Over 90% by SDS-PAGE (CBB staining)
Applications	1) Studies on mechanisms of DNA recombination, replication and repair. 2) Application for genetic engineering. For dissociation of special structure DNA.
Storage	Store at -70°C

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Concentration	0.5 mg/ml as measured by BCA method
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