Recombinant E.coli RecA

Cat. No. recA-57E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A recombinant E. coli strain overexpressing E. coli recA from a plasmid.
Species	E.coli
Source	E.coli
Description	RecA functions in DNA recombination and DNA repair. RecA binds to single stranded DNA, resulting in the polymerization of RecA into a nucleoprotein complex. This complex can align with complementary double stranded DNA, resulting in RecA catalysis of DNA strand exchange. RecA DNA binding is stimulated by ATP hydrolysis or non-hydrolyzable ATP analogs. The RecA-ATP-single stranded DNA complex also can function as a coprotease factor in the proteolytic cleavage of LexA, UmuD and certain bacteriophage proteins. RecA complexed with site-specific oligonucleotides have been used to target and specifically cleave large DNA fragments.
Molecular Mass	37,973 Daltons
Purity	>95% by SDS-PAGE
Unit Definition	Sold by mass of pure protein determined at OD280 (A280 = 0.516 at 1 mg/mL, 1cm)..
Storage	-25 to -15°C
Concentration	2.0 mg/mL

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Buffer	Supplied in: 10mM Tris-HCl, 1mM DTT. 0.1 mM EDTA 50% glycerol pH 7.5 @ 25?C. Supplied with: 10X RecA Reaction Buffer: 700mM Tris-HCl, 100mM MgCl2, 50mM DTT pH 7.6 @ 25?C.

GENE INFORMATION

Gene Name	recA?DNA recombination and repair protein; ssDNA-dependent ATPase; synaptase; ssDNA and dsDNA binding protein; ATP-dependent homologous DNA strand exchanger; recombinase A; LexA autocleavage cofactor [Escherichia coli str. K-12 substr. MG1655?]
Official Symbol	recA
Synonyms	recA; DNA recombination and repair protein; ssDNA-dependent ATPase; synaptase; ssDNA and dsDNA binding protein; ATP-dependent homologous DNA strand exchanger; recombinase A; LexA autocleavage cofactor; NP_417179.1; DNA strand exchange and renaturation, DNA-dependent ATPase, DNA- and ATP-dependent coprotease
Gene ID	947170
Protein Refseq	NP_417179
Pathway	Homologous recombination
Function	peptidase activity

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