RecA Protein
Borrelia garinii

Datasheet, Version 2/2016

protean
Forefront of Biotechnology

Catalog #	1269
Synonyms	recA, DNA recombination protein recA
Type	Recombinant
Source	E. coli
Species	Borrelia garinii
Tag	GST
Form	Liquid
Purity	>95% by SDS PAGE
Shipping	Ice pack

Introduction

RecA protein participates in general recombination, repair of DNA. It has been observed in vitro to have DNA-dependent ATPase activity, promote proteolytic cleavage of repressors and to catalyze DNA strand pairing and exchange. In the presence of ATP, RecA Protein promotes the strand exchange of single-strand DNA fragments with homologous duplex DNA.

Description

The RecA protein binds strongly and in long clusters to ssDNA to form a nucleoprotein filament. The protein has more than one DNA binding site, and thus can hold a single strand and double strand together. This feature makes it possible to catalyze a DNA synapsis reaction between a DNA double helix and a complementary region of single stranded DNA.

Application

Functional Studies, Protein-protein interactions, Gel-shift assay, Pull-down assay, DNA binding and stabilization

Purification method

Affinity chromatography

Formulation

PBS solution 1 mg/ml

Specificity

Single stranded and double stranded DNA

Storage

-80C, aliquot to avoid repeated freezing and thawing.

Analyte specific reagent (ASR) manufactured under ISO 13485.
Country of origin: Czech Republic

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ISO 9001 & ISO 13485
CERTIFIED

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