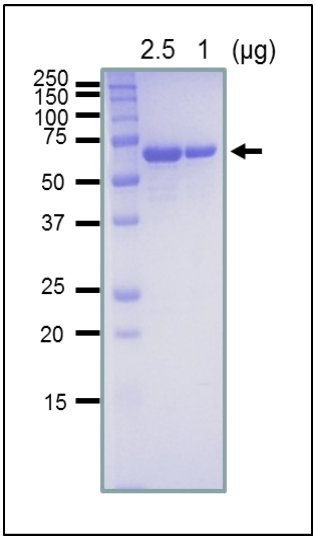
E. coli RecQ DNA Helicase, Functional

Product code	01-003 01-004
Size	20 µg 100 µg
Storage	-80℃ Avoid freeze-thaw cycles.
Product Description	Recombinant full-length E. coli RecQ protein
Concentration	0.45 mg/ml
Buffer	20 mM Tris-HCl (pH 7.5), 1 mM EDTA, 50 mM KCl, 1 mM DTT, 10 % Glycerol
Purity	Over 95% by SDS-PAGE
Application	1. DNA dependent ATPase 2. DNA helicase specific for various form of DNA structure like branched form and fork.
Activity	Unwinding duplex DNA, dependent on ATP. DNA-dependent ATPase (Ref.2).
Background	*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 (1).
Image	 **Figure.** SDS-PAGE analysis of the purified RecQ protein
Data Link	UniProtKB: P15043 (RECQ_ECOLI)
References	This product was used in Ref 2 1.Hickson I "RecQ helicases: caretakers of the genome." *Nat. Rev. Cancer* **3**:169-78 (2003) Review PMID: 12612652 2. HishidaT *et al* "Role of the Escherichia coli RecQ DNA helicase in SOS signaling and genome stabilization at stalled replication forks." *Genes Dev* **18**:1886-1897 (2004) PMID: 15289460

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.

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