



# Recombinant Escherichia coli ATP-dependent DNA helicase recG (recG)

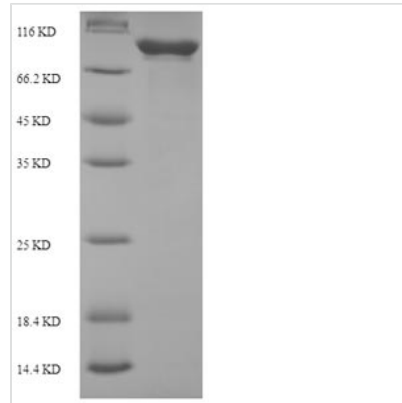
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|--------------------------|---|
| <b>Product Code</b>      | CSB-EP326126ENV   |
| <b>Relevance</b>         | Critical role in recombination and DNA repair. Helpx process Holliday junction intermediates to mature products by catalyzing branch migration. Has a DNA unwinding activity characteristic of a DNA helicase with a 3'- to 5'- polarity. Unwinds branched duplex DNA (Y-DNA). Has a role in constitutive stable DNA replication (CsdR) and R-loop formation.   |
| <b>Abbreviation</b>      | Recombinant E.coli recG protein   |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.   |
| <b>Uniprot No.</b>       | P24230  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Escherichia coli (strain K12)   |
| <b>Purity</b>            | ≥ 90% as determined by SDS-PAGE.  |
| <b>Sequence</b>          | MKGRLLDAVPLSSLTGVGAALSNKLAKINLHTVQDLLLHPLRYEDRTHLYPIG<br>ELLPGVYATVEGEVLNLCNISFGGRRMMTCQISDGSGILTMRFNFSAAMKNSL<br>AAGRRLVAYGEAKRGKYGAEMIHPEYRVQGDLSPELQETLTPVYPTTEGVK<br>QATLRKLTQALDLDLDTCAIEELLPPELSQGMMLPEALRTLHRPPPTLQLSDL<br>ETGQHPAQRRLLILEELLAHNLSMLALRAGAQRFHQAQPLSANDTLKNKLLAALPF<br>KPTGAQARVVAEIERDMALDVPMMRLVQGDVVGSGKTLVAALAALRAIAHGKQ<br>VALMAPTELLAEQHANNFRNWFAPLGIEVWLAGKQKQKARLAQQEAIASGQ<br>VQMIVGTHAIFQEQQVFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHHPQL<br>IMTATPIPRTLAMTAYADLDTVIDELPPGRTPVTTVAIPDTRRTDIIDRVVHHACIT<br>EGRQAYWVCTLIEESELLEAQAAEATWEELKLALPELNVGLVHGRMKPAEKQ<br>AVMASFKQGELHLLVATTVIEVGVDPNASLMIENPERLGLAQLHQLRGRVGR<br>GAVASHCVLLYKTPLSKTAQIRLQVLRDSNDGFVIAQKDLEIRGPGELLGTRQT<br>GNAEFKVADLLRDQAMIPEVQRLARHIHERYPQQAALIERWMPETERYSNA |
| <b>Research Area</b>     | Others  |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | recG  |
| <b>Protein Names</b>     | Recommended name: ATP-dependent DNA helicase recG EC= 3.6.4.12  |
| <b>Expression Region</b> | 1-693aa   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | N-terminal 6xHis-SUMO-tagged  |



**Mol. Weight** 92.4kDa

**Protein Length** Full Length

**Image**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.