

Recombinant Escherichia coli RECG Protein (1-693 aa), His-SUMO-tagged

Cat. No. RECG-898E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Escherichia coli (strain K12) RECG Protein (1-693 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Protein Description: Full Length.
Species	E.coli
Source	E.coli
ProteinLength	1-693 aa
Description	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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	92.4 kDa
AA Sequence	MKGRLLDAVPLSSLTGVGAAALSNKLAKINLHTVQDLLLHPLRYEDRTHLYPIGELLPGVYATVEGEVLNCNISFGGRRMMTCQISDGSGLTMRFFNFSAAMKNSLAAGRRVLA YGEAKRGKYGAEMIHPEYRVQGDLPSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPELSQGMMLTPEALRTLHRPPPTLQLSDLETGQHPAQRRRLILEE

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LLAHNLSMLALRAGAQRFHAQPLSANDTLKNKLLAALPFKPTGAQARVVAEIERDMA
LDVPMMLRLVQGDVGSGKTLVAALAALRAIAHGKQVALMAPTELLAEQHANNFRNWF
APLGIEVGWLAGKQKGKARLAQQEAIASGQVQMIVGTHAIFQEQQVFNGLALVIIDE
QHRFGVHQRLALWEKGQQQGFHPhQLIMTATPIPRTLAMTAYADLDTVIDELPPG
RTPVTTVAIPDTRRTDIIDRVHHACITEGRQAYWVCTLIEESELLEAQAAEATWEEKL
ALPELVGLVHGRMKPAEKQAVMASFKQGELHLLVATTVIEVGVDVNPASLMIIENP
ERLGLAQLHQLRGRVGRGAVASHCVLLYKTPLSKTAQIRLQVLRDSNDGFVIAQKDL
EIRGPGELLGTRQTGNAEFKVADLLRDQAMIPEVQRLARHIHERYPQQAKALIERWM
PETERYSNA

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage 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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with concentration instruction is sent along with the products.

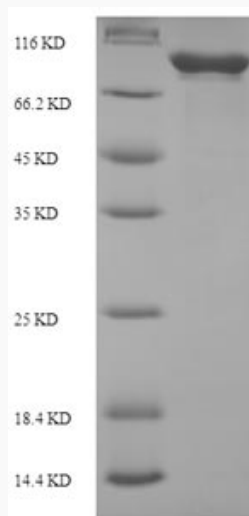
GENE INFORMATION

UniProt ID [P24230](#)

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

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