

RecG Protein, E. coli O157:H7, Recombinant (His & SUMO)

General Information

Synonyms:	Probable DNA 3'-5' helicase RecG;DNA branch migration protein RecG;recG;ATP-dependent DNA helicase RecG
Protein Construction:	1-693 aa
Species:	E. coli
Expression Host:	E. coli
Accession:	Q8XD86
Molecular Weight:	89.4 kDa (predicted)
AA Sequence:	<p>MTGRLLDAVPLSSLTGVGAALSNNKLAKINLHTVQDLLLLHLPLRYEDRTHLYPIGELLPGVYATVEGEVLNCNISF GGRRMMTCQISDGSGLTMRFFNFSAAMKNSLATGRRVLAYGEAKRGKYGAEMIHPEYRVQDLSTPELQET LTPVYPTTEGVKQATLRKLTQALDLDLDTCAIEELLPELSQGMMLPEALRTLHRPPPTLQLSDLETGQHPAQ RRLILEELLAHNLSMLALRAGAQRFAHQPLSANDALKNKLLAALPFKPTGAQARVVAEIERDMALDVPMMRL VQGDVGSGLTLVAALAALRAIAHGKQVALMAPTELLAEQHANNFRNWFEPGLIEVGWLAGKQKQKARLSQ QEAIASGQVQMIVGTHAIFQEQQVFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMITATPIPTL AMTAYADLDTVIDELPPGRTPVTTVAIPDTRRTDIIDRVRHACITEGRQAYWVCTLIEESELLEAQAEEATWEE LKLALPELNVGLVHGRMKPAEKQAVMASFKQGELHLLVATTVIEVGVDVVPNASLMIENPERLGLAQLHQLRG RVGRGAVASHCVLLYKTPLSKTAQIRLQVLRDSNDGFVIAQKDLERIRGPGELLGTRQGTGNAEFKVADLLRDQA MIPEVQRLARHIHERYPQQAALIERWMPETERYSNA</p>

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Critical role in recombination and DNA repair. Helps 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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