

Recombinant E. coli LexA

Cat. No. lexA-131E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The product is over-produced as a recombinant protein, and highly purified by several steps of chromatography. A single band is observed by SDS-PAGE at 23 kD.
Species	E.coli
Description	E. coli LexA protein inhibits the transcription of the genes belonging to the SOS regulon that are related to DNA repair and cell division by recognizing and binding to the SOS-box sequence (TACTGTATATATACAGTA). LexA's self-protease activity is promoted by RecA protein which, responding to DNA damage, is activated by its binding to single-strand DNA accumulated in the cells. It is cleaved into two fragments and loses its function as a repressor. As a result, the expression of genes belonging to the SOS regulon is induced, and DNA repair ability and mutagenic activity in the cells are enhanced.
Form	50% glycerol, 10 mM Tris-HCl (pH 7.5), 2 mM EDTA, 100 mM NaCl, 5 mM mercaptoethanol
Purity	Over 90% by SDS-PAGE (CBB staining)
Applications	1) Studies on the mechanism of E. coli SOS response. 2) Used as an antigen for positive control in Western blotting to confirm that the Bait construct is expressed stably in the nucleus as protein of the expected size in the yeast two-hybrid method using the lexA gene.
Storage	Shipped at

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

4°C or -20°C, and store at -80°C for long period.

Concentration	0.8 mg/ml as measured by BCA method
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