

E. coli LexA Repressor

01-005 20 ug, 01-006 100 ug

lexA fused genes are used as baits in the experiments to detect the protein-protein interaction in the yeast two-hybrid method (2).

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 (Fig 1).

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. See also antibody to LexA protein (#61-001, #61-002)

Specification

Purity: Over 90% by SDS-PAGE (CBB staining)

Protein concentration: 0.8 mg/ml as measured by BCA method

Form: 50% glycerol, 10 mM Tris-HCl (pH 7.5), 2 mM EDTA, 100 mM NaCl, 5 mM mercaptoethanol **Storage:** Shipped at 4°C or -20°C, and store at -80°C for long period.

Data Link UniProtKB/Swiss-Prot POA7C2 (LEXA_ECOLI)

References

- Waker GC Cold Spring Harb Symp Quant Biol 65:1-10
 "Understanding the complexity of an organism's responses to DNA damage." (2000) PMID: 12760015
- Sambrook J & Russell DW Molecular Cloning 3rd Ed. Chapter 18.
 17-18.27 Cold Spring Harber Laboratory Press (2001)



Fig.1 Polyacrylamide gel electrophoresis of LexA protein.