

LexA repressor Recombinant Protein | lexA recombinant protein

Recombinant Escherichia coli (strain K12) LexA repressor

CATALOG # AAA115052	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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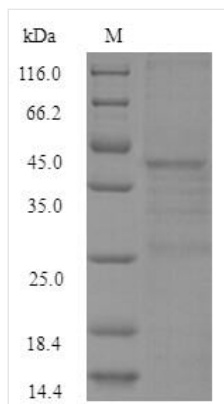
PRODUCT SYNONYMS

LexA repressor; Recombinant Escherichia coli (strain K12) LexA repressor; Escherichia coli (strain K12); lexA recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-202aa; Full Length
Sequence	MKALTARQQE VFDLIRDHIS QTGMPPTRAE IAQRLGFRSP NAAEEHLKAL ARKGVIEIVS GASRGIRLLQ EEEEGLPLVG RVAAGEPLLA QQHIEGHYQV DPSLFKPNAD FLLRVSGMSM KDIGIMDGD L LAVHKTQDVR NGQVVVARID DEVTVKRLKK QGNKVELLPE NSEFKPIVD LRQQSFTIEG LAVGVIRNGD WL
Sequence Length	202
Species	Escherichia coli (strain K12)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for lexA recombinant protein

Represses a number of genes involved in the response to DNA damage (SOS response), including recA and lexA. Binds to the 16 bp palindromic sequence 5'-CTGTATATATATACAG-3'. In the presence of single-stranded DNA, RecA interacts with LexA causing an autocatalytic cleavage which disrupts the DNA-binding part of LexA, leading to derepression of the SOS regulon and eventually DNA repair. Implicated in hydroxy radical-mediated cell death induced by hydroxyurea treatment. The SOS response controls an apoptotic-like death (ALD) induced (in the absence of the mazE-mazF toxin-antitoxin module) in response to DNA damaging agents that is mediated by RecA and LexA

Product Categories/Family for lexA recombinant protein	Microbiology
References	"Purified lexA protein is a repressor of the recA and lexA genes." Little J.W., Mount D.W., Yanisch-Perron C.R. Proc. Natl. Acad. Sci. U.S.A. 78:4199-4203(1981)

NCBI AND UNIPROT INFORMATION

NCBI GI #	16131869
NCBI GeneID	948544
NCBI Accession #	NP_418467.1
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P0A7C2; P03033; Q2M6R1
Molecular Weight	38.4 kDa
NCBI Official Full Name	transcriptional repressor of SOS regulon
NCBI Official Symbol	lexA
NCBI Official Synonym Symbols	ECK4035; exrA; JW4003; spr; tsl; umuA
NCBI Protein Information	transcriptional repressor of SOS regulon
UniProt Protein Name	LexA repressor
UniProt Gene Name	lexA
UniProt Entry Name	LEXA_ECOLI

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.