LexA repressor Recombinant Protein | lexA recombinant protein

Recombinant Escherichia coli (strain K12) LexA repressor

CATALOG #	HOST
AAA115052	**E Coli or Yeast or Baculovirus or Mammalian Cell**

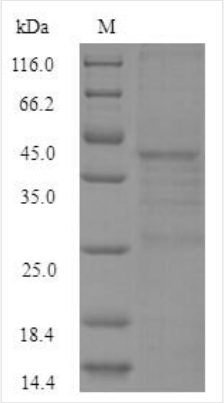
PRODUCT SYNONYMS

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 KDIGIMDGDL LAVHKTQDVR NGQVVVARID DEVTVKRLKK QGNKVELLPE NSEFKPIVVD 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.

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Online datasheet: https://www.aaabiotech.com/lexa-recombinant-protein-e-coli/115052