Lexa Repressor (lexA) Clostridium Botulinum Recombinant Protein

PRODUCT OVERVIEW

Product Name	LexA repressor (lexA), Recombinant Protein
Full Product Name	Recombinant Clostridium botulinum LexA repressor (lexA)
Product Gene Name	lexA recombinant protein
Sequence	MNKSRIDKQN EVYNFIKLQI KEKGYPPSVR EICKAVGLSS TSSVHFHLKR LEKEGLIKRD SSKTRAIEIV DPTSKKEVIN VPIVGTITAG NPILAIENIE DVFPLPIDYV KNTKDLFMLK VSGESMIEAG ILNGDLAIIE KTDSANNGDI VVALIDNEAT LKRFFKESSY IRLQPENKSM KPIILENCKV LGRLVGIYRK Y
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	22,578 Da
Sequence Positions	1-201, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for A5I2R7
Species	Clostridium botulinum (strain Hall / 3502 / 13319 / Type A)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for lexA recombinant protein	MBS1111696 is a recombinant protein targeting lexA. Also known as Recombinant Clostridium botulinum LexA repressor (lexA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of lexA recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for lexA. It may not necessarily be applicable to this product.

NCBI GI #	500750170
NCBI Accession #	WP_011986377.1
UniProt Primary Accession #	A5I2R7
UniProt Secondary Accession #	A7G478
GenBank Nucleotide #	WP_011986377.1
NCBI Official Full Name	LexA repressor
UniProt Protein Name	LexA repressor

Protein Family	LexA repressor
UniProt Gene Name	lexA
UniProt Comments for lexA	Represses a number of genes involved in the response to DNA damage (SOS response), including recA and lexA. 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.
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