Protein Reca (recA) Mycobacterium Smegmatis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein RecA (recA), Recombinant Protein
Full Product Name	Recombinant Mycobacterium smegmatis Protein RecA (recA)
Product Gene Name	recA recombinant protein
Product Synonym Gene Name	recA
Sequence	MAQQAPDREK ALELAMAQID KNFGKGSVMR LGEEVRQPIS VIPTGSISLD VALGIGGLPR GRVIEIYGPE SSGKTTVALH AVANAQAAGG IAAFIDAEHA LDPEYAKKLG VDTDSLLVSQ PDTGEQALEI ADMLVRSGAL DIIVIDSVAA LVPRAEIEGE MGDSHVGLQA RLMSQALRKM TGALNNSGTT AIFINQLREK IGVMFGSPET TTGGKALKFY ASVRLDVRRI ETLKDGTDAV GNRTRVKVVK NKVSPPFKQA EFDILYGQGI SREGSLIDMG VEHGFIRKSG SWFTYEGEQL GQGKENARKF LLENTDVANE IEKKIKEKLG IGAVVTAEAD DVLPAPVDF
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	37,301 Da
Sequence Positions	1-349, 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 Q59560
Species	Mycobacterium smegmatis (strain 700084 / mc(2)155)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for recA recombinant protein	MBS1311370 is a recombinant protein targeting recA. Also known as Recombinant Mycobacterium smegmatis Protein RecA (recA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of recA 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 recA. It may not necessarily be applicable to this product.

NCBI GI #	489991050
NCBI GeneID	4532488
NCBI Accession #	WP_003894107.1
UniProt Primary Accession #	Q59560
UniProt Secondary Accession #	A0QVW9; I7G989

UniProt Related Accession #	Q59560
GenBank Nucleotide #	WP_003894107.1
NCBI Official Full Name	DNA recombination/repair protein RecA
NCBI Official Symbol	recA
UniProt Protein Name	Protein RecA
UniProt Synonym Protein Names	Recombinase A
Protein Family	DNA repair protein
UniProt Gene Name	recA
NCBI Protein Information	recombinase A
UniProt Comments for recA	Required for homologous recombination (HR) and the bypass of mutagenic DNA lesions (double strand breaks, DSB) by the SOS response. Can catalyze the hydrolysis of ATP in the presence of single-stranded DNA, the ATP-dependent uptake of single-stranded DNA by duplex DNA, and the ATP-dependent hybridization of homologous single-stranded DNAs. Numerous X-ray crystals have been resolved under different conditions which indicate the flexibility of the protein, essential to its function. Gln-196 contributes to this plasticity by acting as a switch residue, which transmits the effect of nucleotide binding to the DNA-binding region.
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