

DNA mismatch repair protein MutL Recombinant Protein | mutL recombinant protein

Recombinant Escherichia coli (strain K12) DNA mismatch repair protein MutL

CATALOG #
AAA114266

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

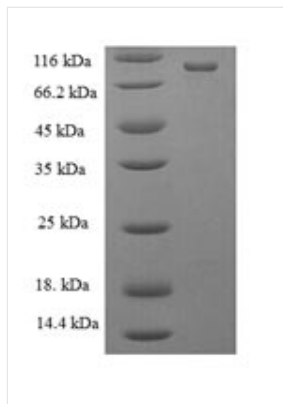
PRODUCT SYNONYMS

DNA mismatch repair protein MutL; Recombinant Escherichia coli (strain K12) DNA mismatch repair protein MutL; mutL 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	1-615aa; Full Length
Sequence	MPIQVLPPQL ANQIAAGEVV ERPASVVKEL VENS LDAGAT RIDIDIERGG AKLIRIRDNG CGIKKDELAL ALARHATSKI ASLDDLEAII SLGFRGEALA SSSVSRLTL TSRTAEQQA WQAYAEGRDM NVTVKPAAHP VGTTLVLDL FYNTARRKF LRTEKTEFNH IDEIIRRIAL ARFDVTINLS HNGKIVRQYR AVPEGGQKER RLGAICGTAF LEQALAEWQ HGDLTLRGWV ADPNHTTPAL AEIQCYVNG RMMRDRLINH AIRQACEDKL GADQQPAFVL YLEIDPHQVD VNVHPAKHEV RFHQSRVLVD FIYQGVLSVL QQQLTLPPL DDEPQPAPRS IPENRVAAGR NHFAEPAARE PVAPRYTPAP ASGSRPAAPW PNAQPGYQKQ QGEVYRQLLQ TPAPMQKLKA PEPQEPALAA NSQSFGRVLT IVHSDCALLE RDGNISLLSL PVAERWLRQA QLTPGEAPVC AQPLLIPLRL KVSAAEKSAL EKAQSALAE GIDFQSDAQH VTIRAVPLPL RQQLNLQILIP ELIGYLAKQS VFEPGNIAQW IARNLMSEHA QWSMAQAITL LADVERLCPQ LVKTPPGGLL QSVDLHPAIK ALKDE
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 mutL recombinant protein

This protein is involved in the repair of mismatches in DNA. It is required for dam-dependent methyl-directed DNA mismatch repair. May act as a "molecular matchmaker", a protein that promotes the formation of a stable complex between two or more DNA-binding proteins in an ATP-dependent manner without itself being part of the final effector complex. The ATPase activity of MutL is stimulated by DNA.

References	Nonconserved segment of the MutL protein from Escherichia coli K-12 and Salmonella typhimurium. Tsui H.-C.T., Mandavilli B.S., Winkler M.E. Nucleic Acids Res. 20:2379-2379(1992) Analysis of the Escherichia coli genome VI DNA sequence of the region from 92.8 through 100 minutes. Burland V.D., Plunkett G. III, Sofia H.J., Daniels D.L., Blattner F.R. Nucleic Acids Res. 23:2105-2119(1995) The complete genome sequence of Escherichia coli K-12. Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V., Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F., Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J., Mau B., Shao Y. Science 277:1453-1462(1997) Highly accurate genome sequences of Escherichia coli K-12 strains MG1655 and W3110. Hayashi K., Morooka N., Yamamoto Y., Fujita K., Isono K., Choi S., Ohtsubo E., Baba T., Wanner B.L., Mori H., Horiuchi T. Mol. Syst. Biol. 2:E1-E5(2006) Structure of Escherichia coli K-12 miaA and characterization of the mutator phenotype caused by miaA insertion mutations. Winkler M.E., Connolly D.M.J. Bacteriol. 173:1711-1721(1991) The mutL repair gene of Escherichia coli K-12 forms a superoperon with a gene encoding a new cell-wall amidase. Tsui H.-C.T., Zhao G., Feng G., Leung H.-C.E., Winkler M.E. Mol. Microbiol. 11:189-202(1994) Crystal structure and ATPase activity of MutL implications for DNA repair and mutagenesis. Ban C., Yang W. Cell 95:541-552(1998) Transformation of MutL by ATP binding and hydrolysis a switch in DNA mismatch repair. Ban C., Junop M., Yang W. Cell 97:85-97(1999)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16131992
NCBI GeneID	948691
NCBI Accession #	NP_418591.1
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P23367; Q2M6D5
Molecular Weight	71.9 kDa
NCBI Official Full Name	methyl-directed mismatch repair protein
NCBI Official Symbol	mutL
NCBI Official Synonym Symbols	ECK4166; JW4128
NCBI Protein Information	methyl-directed mismatch repair protein
UniProt Protein Name	DNA mismatch repair protein MutL
UniProt Gene Name	mutL
UniProt Entry Name	MUTL_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.