

Thermus Aquaticus DNA Mismatch Repair Recombinant Protein | MutS recombinant protein

Recombinant Thermus Aquaticus DNA Mismatch Repair Protein MutS

CATALOG # AAA38054	HOST E. coli
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PRODUCT SYNONYMS

Thermus Aquaticus DNA Mismatch Repair; Recombinant Thermus Aquaticus DNA Mismatch Repair Protein MutS; MutS; Thermus Aquaticus DNA Mismatch Repair Protein; DNA mismatch repair protein MutS.; MutS recombinant protein

PRODUCT SPECIFICATIONS

Host	E. coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The MutS protein (1.4mg/ml) is supplied in 20mM Tris-HCl, pH-8, 250mM NaCl, 0.1mM EDTA, 1mM DTT and 50% Glycerol.
Sequence	MKIEHMEGML KEGPGPLPP LLQQYVELRD QYPDYLLLFQ VGDFYECFGE DAERLARALG LVLTHKTSKD FTTPMAGIPL RAFEAYAERL LKMGFRLAVA DQVEPAEEAE GLVRREVTQL LTPGTLLQES LLPREANYLA AIATGDGWGL AFLDVSTGEF KGTVLKSKSA LYDELFRHRP AEVLLAPELL ENGAFLEDEF KRFPVMLSEA PFEPEGEGPL ALRRARGALL AYAQRTQGGA LSLQPFRFYD PGAFMRLPEA TLRALEVFEP LRQDQTLFSV LDETRTAPGR RLLQSWLRHP LLDRGPLEAR LDRVEGFVRE GALREGVRRRL LYRLADLERL ATRLELGRAS PKDLGALRRS LQILPELRAL LGEEVGLPDL SPLKEELEAA LVEDPPLKVS EGGLEIREGYD PDLDALRAAH REGVAYFLEL EERERERTGI PTLKVGYNV FGYYLEVTRP YYERVPKYR PVQTLKDRQR YTLPEMKEKE REVYRLEALI RRRREEVFLE VRERAKRQAE ALREAARILA ELDVYAALAE VAVRYGYVRP RFGDRLQIRA GRHPVVERRT EFVPNDLEMA HELVLITGPN MAGKSTFLRQ TALIALLAQV GSFVPAEEAH LPLFDGIYTR IGASDDLGG KSTFMVEMEE VALILKEATE NSLVLLDEVG RGTSSLDGVA IATAVAEALH ERRAYTLFAT HYFELTALGL PRLKNLHVAA REEAGGLVYF HQVLPGPASK SYGVEVAAMA GLPKEVVARA RALLQAMAAR REGALDAVLE RLLALDPDRL TPLEALRLLQ ELKALALGAP LDTMKGKLAA ALEHHHHHHH.
Sequence Length	811
Physical Appearance	Sterile filtered colorless solution.
Reaction Buffer	100mM KCl, 50mM Tris-HCl, pH-8.5, 20mM MgCl ₂ , 0.1mM EDTA, 1mM DTT and 2% Glycerol, 65°C.
Protocol	1. After first round PCR, purify PCR fragments using Qiagen QIAquick PCR purification kit with elution in dH ₂ O. 2. Dilute PCR product to 250 ng/ul in 10 mM Tris-HCl, pH 7.8, 50 mM NaCl and heat to 95°C for 5 min followed by cooling at 0.1°C /s to 25°C. 3. Add binding buffer (20 mM Tris-HCl, pH 7.8, 10 mM NaCl, 5 mM MgCl ₂ , 1 mM DTT and 5% glycerol) to annealed PCR product, adjust DNA concentration to 11.5 ng/ul, add MutS dimers to 950 nM. 4. Incubate the mixture at room temperature for 10 min, then add an equal volume of Ni-NTA beads pre-equilibrated with 1xbinding buffer, and incubate for 30 min at room temperature. 5. Gently spin down beads and save supernatant for subsequent processing (second round PCR, cloning etc).
Preparation and Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for MutS recombinant protein	DNA Mismatch Repair Protein MutS Thermus Aquaticus Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 829 amino acids and having a molecular mass of 92.8kDa. The Thermus Aquaticus is fused to a 6 amino acid His-Tag at C-terminus and purified by proprietary chromatographic techniques.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	2497995
UniProt Accession #	Q56215
NCBI Official Full Name	DNA mismatch repair protein MutS
UniProt Protein Name	DNA mismatch repair protein MutS
UniProt Gene Name	mutS

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/muts-recombinant-protein-e-coli/38054>