

Recombinant Human MSH3 Protein, His-tagged

Cat. No. MSH3-494H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MSH3 protein with a His-tag was expressed in E. coli
Species	Human
Source	E.coli
Description	The protein encoded by this gene forms a heterodimer with MSH2 to form MutS beta, part of the post-replicative DNA mismatch repair system. MutS beta initiates mismatch repair by binding to a mismatch and then forming a complex with MutL alpha heterodimer. This gene contains a polymorphic 9 bp tandem repeat sequence in the first exon. The repeat is present 6 times in the reference genome sequence and 3-7 repeats have been reported. Defects in this gene are a cause of susceptibility to endometrial cancer.
Molecular Mass	The protein has a calculated MW of 40.3 kDa.
AA Sequence	MGSSHHHHHHSSGLVPRGSHMSRRKPASGGLAASSAPARQAVLSRFFQSTGSLK STSSSTGAADQVDPGAAAAAAAAAATAPPAPPAPAFPPQLPPHIAEIDRRKKRPLE NDGPVKKKKVKKVQKKEGSDLGMSGNSEPKKCLRTRNVSKSLEKLKEFCCDSALP QSRVQTESLQERFAVLPKCTDFDDISLLHAKNAVSSSEDSKRQINQKDTTLFDLSQFG SSNTSHENLQKTASKSANKRSKSIYTPLELQYIEMKQQHKDAVLCVECGYKYRFFGE DAEIAARELNICHLDHNFMTASIPTHRLFVHVRRLVAKGYKVG VVKQTETAALKAIG DNRSSLFSRKLTAlyTKSTLIGEDVNPLIKL
Endotoxin	<1

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	EU/μg
Purity	>85% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from sterile PBS, Ph7.4, 5% trehalose, 5% mannitol added with 0.25M Arginine

GENE INFORMATION

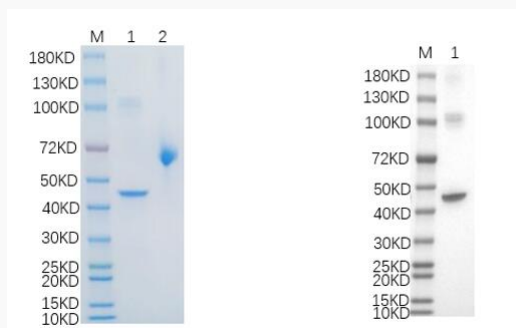
Gene Name	MSH3 mutS homolog 3 (E. coli) [Homo sapiens (human)]
Official Symbol	MSH3
Synonyms	MSH3; mutS homolog 3 (E. coli); mutS (E. coli) homolog 3; DNA mismatch repair protein Msh3; Divergent upstream protein; DUP; Mismatch repair protein 1; MRP1; hMSH3; mismatch repair protein 1; divergent upstream protein; MGC163306; MGC163308;
Gene ID	4437
mRNA Refseq	NM_002439
Protein Refseq	NP_002430
MIM	600887
UniProt ID	P20585

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SDS-PAGE:



Reducing 12% SDS-PAGE and WB analysis profile of purified MSH

1. MSH
2. BSA