

Recombinant Human MSH6, GST-tagged

Cat. No. MSH6-2412H Lot. No. (See product label)

SPECIFICATION

Product Overview	MSH6 Human Recombinant produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 51 amino acids (350-400 a.a.) having a total Mw of 33 kDa. Human MSH6 is fused to a GST tag and purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	350-400 a.a.
Description	This gene encodes a member of the DNA mismatch repair MutS family. In E. coli, the MutS protein helps in the recognition of mismatched nucleotides prior to their repair. A highly conserved region of approximately 150 aa, called the Walker-A adenine nucleotide binding motif, exists in MutS homologs. The encoded protein heterodimerizes with MSH2 to form a mismatch recognition complex that functions as a bidirectional molecular switch that exchanges ADP and ATP as DNA mismatches are bound and dissociated. Mutations in this gene may be associated with hereditary nonpolyposis colon cancer, colorectal cancer, and endometrial cancer. Transcripts variants encoding different isoforms have been described.
Form	Sterile Filtered clear solution. MSH6 is supplied in 50mM Tris-HCl, pH-7.5, 10mM L-glutathione (reduced).
Stability	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for

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longer periods of time. Please avoid freeze thaw cycles.

GENE INFORMATION

Gene Name	MSH6 mutS homolog 6 [Homo sapiens (human)]
Official Symbol	MSH6
Synonyms	MSH6; GTBP; HSAP; p160; GTMBP; HNPCC5; mutS homolog 6; DNA mismatch repair protein Msh6; sperm-associated protein; mutS-alpha 160 kDa subunit; G/T mismatch-binding protein
Gene ID	2956
mRNA Refseq	NM_000179
Protein Refseq	NP_000170
MIM	600678
UniProt ID	P52701
Chromosome Location	2p16
Pathway	BRCA1-associated genome surveillance complex (BASC); Colorectal cancer; Mismatch repair
Function	contributes_to ADP binding; contributes_to ATPase activity; contributes_to MutLalpha complex binding

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