

Recombinant Human MSH6 Protein, N-His tagged

Cat. No. MSH6-03H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Human mutS homolog 6 (E. coli) (MSH6), Met1-Ser280, with N-terminal His tag, expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-280 aa
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.
Molecular Mass	30.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Applications	Cell culture: For culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	> 50 µg/mL as determined by microplate BCA method
Storage Buffer	50 mM Tris-HCl, pH 8.0, 8 M urea

GENE INFORMATION

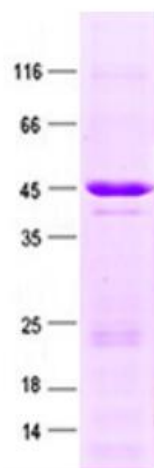
Gene Name	MSH6 mutS homolog 6 [Homo sapiens (human)]
Official Symbol	MSH6
Synonyms	MSH6; mutS homolog 6; GTBP; HSAP; p160; GTMBP; MSH-6; HNPCC5; LYNCH5; MMRCS3; DNA mismatch repair protein Msh6; G/T mismatch-binding protein; mutS protein homolog 6; mutS-alpha 160 kDa subunit; mutS-like protein 6; sperm-associated protein
Gene ID	2956
mRNA Refseq	NM_000179
Protein Refseq	NP_000170
MIM	600678
UniProt ID	P52701

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SDS-PAGE



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