

Recombinant Human MSH5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MSH5-2013H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MSH5 MS Standard C13 and N15-labeled recombinant protein (NP_002432) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the mutS family of proteins that are involved in DNA mismatch repair and meiotic recombination. This protein is similar to a <i>Saccharomyces cerevisiae</i> protein that participates in segregation fidelity and crossing-over events during meiosis. This protein plays a role in promoting ionizing radiation-induced apoptosis. This protein forms hetero-oligomers with another member of this family, mutS homolog 4. Polymorphisms in this gene have been linked to various human diseases, including IgA deficiency, common variable immunodeficiency, and premature ovarian failure. Alternative splicing results multiple transcript variants. Read-through transcription also exists between this gene and the downstream chromosome 6 open reading frame 26 (C6orf26) gene.
Molecular Mass	93 kDa
AA Sequence	MASLGANPR RTPQGPRPGAASSGFSPAPVPGPREAEEEEVEEEEEELAEIHL CVLW NSGYLGIAYYDTSDSTIH FMPDAPDHESL KLLQ RVLDEINPQSVVTS AKQDENMTRF LGKLASQEHREP KRPEIIFLPSVDFGLEISKQRLLSGNYSFIPDAMTATEKILFLSSIIPF

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DCLLTVRALGGLLKFLGRRRIGVELEDYNVSVPILGFKKFMLTHLVNIDQDTYSVLQIF
 KSESHPSVYKVASGLKEGLSLFGILNRCHCKWGEKLLRLWFTRPHTDLGELSSRLD
 VIQFFLLPQNLDMAQMLHRLLGHIKNVPLILKRMKLSHTKVSDWQVLYKTVYSALGLR
 DACRSLPQSIQLFRDIAQEFSDDLHHIASLIGKVVD FEGSLAENRFTVLPNIDPEIDEK
 KRRLMGLPSFLTEVARKELNLD SRIPSCSVIYIPLIGFLLSIPRLPSMVEASDFEINGL
 DFMFLSEEK LHYRSARTKELDALLGDLHCEIRDQETLLMYQLQCQVLARA AVLTRVL
 DLASRLDVLLALASAARDYGYSRPRYSPQVLGVRIQNGRHPLMELCARTFVPNSTE
 CGGDKGRVKVITGPNSSGKSIY LKQVGLITFMALVGSFVPAEEAEIGAVDAIFTRIHSC
 ESISLGLSTFMIDLNQVAKAVNNATAQSLVLIDEFGKGTNTVDGLALLAAVLRHWLA
 RGPTCPHIFVATNFLSLVQLQLLPQG PLVQYLTMETCEDGNDLVFFYQVCEGVAKAS
 HASHTAAQAGLPDKLVARGKEVSD LIRSGKPIKPVKDLLKKNQMENCQTLVDKFMKL
 DLEDPNLDLNVFMSQEVLP AATSILTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name MSH5 mutS homolog 5 [Homo sapiens (human)]

Official Symbol MSH5

Synonyms MSH5; mutS homolog 5 (E. coli); mutS (E. coli) homolog 5; mutS protein homolog 5;

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G7; NG23; MUTSH5; MGC2939; DKFZp434C1615;

Gene ID 4439

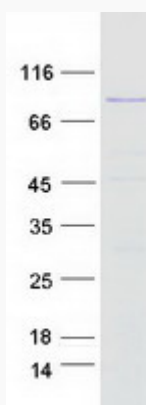
mRNA Refseq NM_002441

Protein Refseq NP_002432

MIM 603382

UniProt ID O43196

SDS-PAGE



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