

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

Cat. No. MSH5-1240H **Lot. No.** (See product label)

SPECIFICATION

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| Product Overview | MSH5 MS Standard C13 and N15-labeled recombinant protein (NP_751898) 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 | 92.7 kDa |
| AA Sequence | MASLGANPRRTPQGPRPGAASSGFSPAPVPGPREAEEEEVEEEEEELAEIHLCVLW NSGYLGIAYYDTSSTIHMPDAPDHESLKLQRLVLEINPQSVVTSAKQDENMTRF LGKLASQEHREPKRPEIIFLPSVDFGLEISKQRLLSGNYSFIPDAMTATEKILFLSSIIPF |

 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

DCLLTVRALGGLLKFLGRRRIGVELEDYNVSVPILGFKKFMLTHLVNIDQDTYSVLQIF
 KSESHPSVYKVASGLKEGLSLFGILNRCHCKWGEKLLRLWFTRPTHDLGELSSRLD
 VIQFFLLPQNLDMAQMLHRLLGHIKNVPLILKRMKLSHTKVSDWQVLYKTVYSALGLR
 DACRSLPQSIQLFRDIAQEFSDDLHHIASLIGKVVDFFEGSLAENRFTVLPNIDPEIDEK
 KRRLMGLPSFLTEVARKELNLD SRIPSCSVIYIPLIGFLLSIPRLPSMVEASDFEINGL
 DFMFLSEEKLYRSARTKELDALLGDLHCEIRDQETLLMYQLQCQVLARA AVLTRVL
 DLASRLDVLLALASAARDYGYSRPRYSPQVLGVRIQNGRHPLMELCARTFVPNSTE
 CGGDKGRVKVITGPNSSGKSIYLKQVGLITFMALVGSFVPAEEAEIGAVDAIFTRIHSC
 ESISLGLSTFMIDLNQVAKAVNNATAQSLVLIDEFGKGTNTVDGLALLAAVLRHWLAR
 GPTCPHIFVATNFLSLVQLQLLPQGPLVQYLTMETCEDGNDLVFFYQVCEGVAKASH
 ASHTAAQAGLPDKLVARGKEVSDLIRSGKPIKPVKDLLKKNQMENCQTLVDKFMKLD
 LEDPNLDLNVFMSQEVLPAATSILTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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_172166**Protein Refseq** NP_751898**MIM** 603382**UniProt ID** O43196**SDS-PAGE** 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