

## Recombinant Mouse Msh5 Protein, Myc/DDK-tagged

Cat. No. Msh5-4187M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length mutS homolog 5 (Msh5), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	<p>This gene encodes a member of the MutS family of proteins that play critical roles in DNA mismatch repair and meiotic homologous recombination processes. Mice lacking the encoded protein are viable but sterile, with severe defects in spermatogenesis in males and complete loss of ovarian structures in females. Mutations in a similar gene in humans have been shown to cause common variable immune deficiency (CVID) and immunoglobulin A deficiency. Alternative splicing of this gene results in multiple transcript variants.</p>
<b>Molecular Mass</b>	92.6 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method

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**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** Msh5 mutS homolog 5 [ *Mus musculus* (house mouse) ]

**Official Symbol** Msh5

**Synonyms** MSH5; mutS homolog 5 (*E. coli*); mutS protein homolog 5; DNA mismatch repair protein Msh5; G7; Mut5

**Gene ID** 17687

**mRNA Refseq** NM\_001146215

**Protein Refseq** NP\_001139687

**UniProt ID** Q9QUM7

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