

Recombinant Mouse Mgme1 Protein, Myc/DDK-tagged

Cat. No. Mgme1-4061M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length mitochondrial genome maintenance exonuclease 1 (Mgme1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Metal-dependent single-stranded DNA (ssDNA) exonuclease involved in mitochondrial genome maintenance. Has preference for 5'-3' exonuclease activity but is also capable of endonuclease activity on linear substrates. Necessary for maintenance of proper 7S DNA levels. Probably involved in mitochondrial DNA (mtDNA) repair, possibly via the processing of displaced DNA containing Okazaki fragments during RNA-primed DNA synthesis on the lagging strand or via processing of DNA flaps during long-patch base excision repair. Specifically binds 5-hydroxymethylcytosine (5hmC)-containing DNA in stem cells.
Molecular Mass	38.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
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 after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

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

GENE INFORMATION

Gene Name Mgme1 mitochondrial genome maintenance exonuclease 1 [Mus musculus (house mouse)]

Official Symbol Mgme1

Synonyms Mgme1; mitochondrial genome maintenance exonuclease 1; AI426476; 8430406I07Rik; mitochondrial genome maintenance exonuclease 1; mitochondrial genome maintainance exonuclease 1

Gene ID 74528

mRNA Refseq NM_028984

Protein Refseq NP_083260

UniProt ID Q9CXC3

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