

Recombinant Mouse Mre11a Protein, Myc/DDK-tagged

Cat. No. Mre11a-4136M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length MRE11A homolog A, double strand break repair nuclease (Mre11a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Component of the MRN complex, which plays a central role in double-strand break (DSB) repair, DNA recombination, maintenance of telomere integrity and meiosis. The complex possesses single-strand endonuclease activity and double-strand-specific 3'-5' exonuclease activity, which are provided by MRE11. RAD50 may be required to bind DNA ends and hold them in close proximity. This could facilitate searches for short or long regions of sequence homology in the recombining DNA templates, and may also stimulate the activity of DNA ligases and/or restrict the nuclease activity of MRE11 to prevent nucleolytic degradation past a given point. The complex may also be required for DNA damage signaling via activation of the ATM kinase. In telomeres the MRN complex may modulate t-loop formation.
Molecular Mass	80.7 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.

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Storage	Store at -80 centigrade after receiving vials.
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	Mre11a MRE11A homolog A, double strand break repair nuclease [Mus musculus (house mouse)]
Official Symbol	Mre11a
Synonyms	MRE11A; meiotic recombination 11 homolog A (S. cerevisiae); double-strand break repair protein MRE11A; mmMRE11A; MRE11 homolog 1; MRE11 homolog A; meiotic recombination 11 homolog 1; Mre11; Mre11b
Gene ID	17535
mRNA Refseq	NM_018736
Protein Refseq	NP_061206
UniProt ID	Q61216

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