

Recombinant Human MRE11 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MRE11-1457H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MRE11A MS Standard C13 and N15-labeled recombinant protein (NP_005582) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a nuclear protein involved in homologous recombination, telomere length maintenance, and DNA double-strand break repair. By itself, the protein has 3' to 5' exonuclease activity and endonuclease activity. The protein forms a complex with the RAD50 homolog; this complex is required for nonhomologous joining of DNA ends and possesses increased single-stranded DNA endonuclease and 3' to 5' exonuclease activities. In conjunction with a DNA ligase, this protein promotes the joining of noncomplementary ends in vitro using short homologies near the ends of the DNA fragments. This gene has a pseudogene on chromosome 3. Alternative splicing of this gene results in two transcript variants encoding different isoforms.
Molecular Mass	80.6 kDa
AA Sequence	MSTADALDDENTFKILVATDIHLGFMEKDAVRGNDTFVTLDEILRLAQENEVDFILLG GDLFHENKPSRKTLLHTCLELLRKYCMGDRPVQFEILSDQSVNFGFSKFPWVNYQDG NLNISIPVFSIHGNHDDPTGADALCALDILSCAGFVNHFGSRMSVEKIDISPVLLQKGS TKIALYGLGSIPDERLYRMFVNKKVTMLRPKEDENSWFNLFVIHQNRSKHGSTNFIPE

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QFLDDFIDLVIWGHEHECKIAPTKNEQQLFYISQPGSSVVTSLSPGEAVKKHVGLLRI
KGRKMNMHKIPLHTVRQFFMEDIVLANHPDIFNPDNPKVTQAIQSFCLKIEEMLENA
ERERLGNSHQPEKPLVRLRVDYSGGFEPFSVLRFSQKFVDRVANPKDIIHFFRHREQ
KEKTGEEINFGKLITKPSEGTTLRVEDLVKQYFQTAENQVQLSLLTERGMGEAVQEF
VDKEEKDAIEELVKYQLEKTQRFLKERHIDALEDKIDEEVRRFRRETRQKNTNEEDDEV
REAMTRARALRSQSEESASAFSADDLMSIDLAEQMANDSDDISISAATNKGRGRGR
GRRGGRGQNSASRGGSSQRGRADTGLETSTRSRNSKTAVSASRNMSIIDAFKSTRQ
QPSRNVTTKNYSEVIEVDESDEEDIFPTTSKTDQRWSSTSSSKIMSQSQVSKGVDF
ESSEDDDDDPFMTNTSSLRRNRRTTRPLEQKLISEEDLAANDILDYKDDDDKV

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	MRE11 MRE11 homolog, double strand break repair nuclease [Homo sapiens (human)]
Official Symbol	MRE11
Synonyms	MRE11; MRE11 homolog, double strand break repair nuclease; ATLD; HNGS1; MRE11A; MRE11B; double-strand break repair protein MRE11; AT-like disease; DNA recombination and repair protein; MRE11 double strand break repair nuclease A;

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MRE11 homolog 1; MRE11 homolog A, double strand break repair nuclease; MRE11 homolog, double strand break repair nuclease A; MRE11 meiotic recombination 11 homolog A; MRE11 meiotic recombination 11-like protein A; double-strand break repair protein MRE11A; endo/exonuclease Mre11; meiotic recombination 11 homolog 1; meiotic recombination 11 homolog A

Gene ID [4361](#)

mRNA Refseq [NM_005591](#)

Protein Refseq [NP_005582](#)

MIM [600814](#)

UniProt ID [P49959](#)

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