

Recombinant Full Length Human MRE11A Protein

Cat. No. MRE11A-315HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Mre11 protein with an N terminal proprietary tag; predicted MWt: 48.77 kDa inclusive of tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	206 amino acids
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.
Form	Liquid
Molecular Mass	48.770kDa inclusive of tags
AA Sequence	MSTADALDDENTFKILVATDIHLGFMEKDAVRGNDTFVTL DEILRLAQENEVDFILLG GDLFHENKPSRKTLLHTCLELLR KYCMGDRPVQFEILSDQSVNFGFSKFPWVNYQD

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GNLNISI PVFSIHGNHDDPTGADALCALDILSCAGFVNHFGRSMSVE KIDISPVLLQK
GRTKIALYGLGSIPDERLYRMFVNKKVMTM LRPKED

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION

Gene Name [MRE11A](#) [MRE11 meiotic recombination 11 homolog A \(S. cerevisiae\)](#) [Homo sapiens]

Official Symbol [MRE11A](#)

Synonyms MRE11A; MRE11 meiotic recombination 11 homolog A (S. cerevisiae); meiotic recombination (S. cerevisiae) 11 homolog A , MRE11; double-strand break repair protein MRE11A; AT like disease; ATLD

Gene ID [4361](#)

mRNA Refseq [NM_005590](#)

Protein Refseq [NP_005581](#)

MIM [600814](#)

UniProt ID [P49959](#)

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