

## Recombinant Human MRE11A Protein, His-tagged

Cat. No. MRE11A-741H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MRE11A, transcript variant 2, fused with His tag at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Form</b>	25mM Tris, pH8.0, 150mM NaCl, 10% glycerol, 1 % Sarkosyl.
<b>Molecular Mass</b>	77.5 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

## 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; AT-like disease; MRE11 homolog 1; MRE11 homolog A; endo/exonuclease Mre11; meiotic recombination 11 homolog 1; meiotic recombination 11 homolog A; DNA recombination and repair protein; HNGS1; MRE11; MRE11B;

**Gene ID** 4361

**mRNA Refseq** NM\_005590

**Protein Refseq** NP\_005581

**MIM** 600814

**UniProt ID** P49959

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA