

Recombinant Human MRE11 Protein (M1-E411), Tag Free

Cat. No. MRE11-0311H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GG-MRE11A(M1-E411) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	M1-E411
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.
Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	80%

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Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile. 50mM Tris7.5, 200mM NaCl, 20%glycerol, 1mM DTT
Shipping	It is shipped out with blue ice.

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; 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_005590
Protein Refseq	NP_005581

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MIM	600814
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UniProt ID	P49959
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