Recombinant Human MRE11 Protein (Pro375-Lys609), N-GST tagged

Cat. No. MRE11-3734H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MRE11 (Pro375-Lys609) fused with the N-GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Pro375-Lys609
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	Lyophilized powder/frozen liquid
Molecular Mass	53.69 kDa
Purity	>90% as determined by SDS-PAGE.

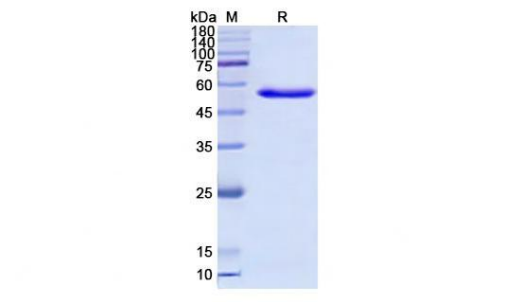
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Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	0.01M PBS, pH 7.4, 0.02% NLS
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

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

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Protein Refseq	NP_005581
MIM	600814
UniProt ID	P49959
SDS-PAGE	

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