

Recombinant Full Length Human MRE11 Protein, C-Flag-tagged

Cat. No. MRE11-651HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MRE11 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	80.4 kDa
AA Sequence	MSTADALDDENTFKILVATDIHLGFMEKDAVRGNDTFVTLDEILRLAQENEVDFILLG GDLFHENKPSRK TLHTCLELLRKYCMGDRPVQFEILSDQSVNFGFSKFPWVNYQD GNLNISIPVFSIHGNHDDPTGADALCA LDILSCAGFVNHFGSRMSVEKIDISPVLLQK

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GSTKIALYGLGSIPDERLYRMFVNKKVTMLRPKEDENSW FNLFVIHQNRSKHGSTN
 FIPEQFLDDFIDLVIWGHEHECKIAPTKNEQQLFYISQPGSSVVTSLSPGEAV KKHVG
 LLRIKGRKMNMHKIPLHTVRQFFMEDIVLANHPDIFNPDNPKVTQAIQSFCLEKIEEML
 ENAERE RLGNHQPEKPLVRLRVDYSGGFEPFSVLRFQKFVDRVANPKDIIHFFR
 HREQKEKTGEEINFGKLITK PSEGTTLRVEDLVKQYFQTAENQVLSLLTERGMGEA
 VQEFVDKEEKDAIEELVKYQLEKTQRFLKERHI DALEDKIDEEVRRFRETRQKNTNE
 EDDEVREAMTRARALRSQSEESASAFSADDLMSIDLAEQMANDSDD SISAATNKGR
 GRGRGRRGGRGQNSASRGGGSRGRADTGLETSTRSRNSKTAVSASRNMSIIDAFK
 STRQQ PSRNVTTKNYSEVIEVDESDEVEDIFPTTSKTDQRWSSTSSSKIMSQSQVS
 KGVDFESSEDDDDDDPFMNT
 SSLRRNRRTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Stem cell - Pluripotency
Protein Pathways	Homologous recombination, Non-homologous end-joining
Full Length	Full L.

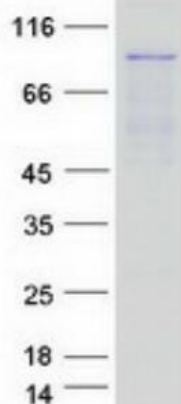
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GENE INFORMATION

Gene Name	MRE11 MRE11 homolog, double strand break repair nuclease [Homo sapiens (human)]
Official Symbol	MRE11
Synonyms	ATLD; HNGS1; MRE11A; MRE11B
Gene ID	4361
mRNA Refseq	NM_005591.4
Protein Refseq	NP_005582.1
MIM	600814
UniProt ID	P49959



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Coomassie blue staining of purified MRE11 protein.

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