

Product datasheet for PH309414

MRE11 (NM_005591) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MRE11A MS Standard C13 and N15-labeled recombinant protein (NP_005582)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209414
Predicted MW:	80.6 kDa
Protein Sequence:	>RC209414 protein sequence Red =Cloning site Green =Tags(s)

MSTADALDDENTFKILVATDIHLGFMEKDAVRGNDTFVTLDEILRLAQENEVDFILLGGDLFHENKPSRK
 TLHTCLELLRKYCMGDRPVQFEILSDQSVNFGFSKFPWVNYQDGNLNISIPVFSIHGNHDDPTGADALCA
 LDILSCAGFVNHFGRMSVEKIDISPVLLQKGSTKIALYGLGSIPDERLYRMFVNKKVTMLRPKEDENSW
 FNLFVIHQNRSKHGSTNFIPEQFLDDFIDLVIWGHEHECKIAPTQNEQQLFYISQPGSSVVTSLSPGEAV
 KKHVGLLRIRKGRKMNMHKIPLHTVRQFFMEDIVLANHPDIFNPDNPKVTQAIQSFCLEKIEEMLENAERE
 RLGNHQPEKPLVRLVDYSGGFEPFVLRFSQKFVDRVANPKDIIHFFRHREQEKTGEEINFGKLITK
 PSEGTTLRVEDLVKQYFQTAENVQLSLLTERGMGEAVQEFVDKEEKDAIEELVKYQLEKTQRFLKERHI
 DALEDKIDEEVRRFRETRQKNTNEEDDEVREAMTRARALRSQSEESASAFSADDLMSIDLAEQMANDSDD
 SISAATNKGRRGRGRRGRGQNSASRGGSQGRADTGLTSTRSRNSKTAVSASRNMSIIDAFKSTRQQ
 PSRNVTTKNYSEVIEVDES DVEEDIFPTTSKTDQRWSSTSSSKIMSQSQVSKGVDFESSEDDDDDDPFMNT
 SSLRRNRR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_005582</u>


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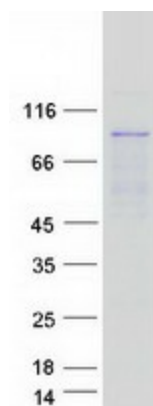
RefSeq Size: 5141
RefSeq ORF: 2124
Synonyms: ATLD; HNGS1; MRE11A; MRE11B
Locus ID: 4361
UniProt ID: [P49959](#), [A0A024R395](#)
Cytogenetics: 11q21

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Homologous recombination, Non-homologous end-joining

Product images:



Coomassie blue staining of purified MRE11 protein (Cat# [TP309414]). The protein was produced from HEK293T cells transfected with MRE11 cDNA clone (Cat# [RC209414]) using MegaTran 2.0 (Cat# [TT210002]).