

Product datasheet for TP510160

Mre11a (NM_018736) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse MRE11A homolog A, double strand break repair nuclease (Mre11a), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR210160 representing NM_018736 Red=Cloning site Green=Tags(s)

MSPTDPLDDEDTFKILVATDIHLGFMEKDAVRGNDTFVTFDEILRLALENEVDFILLGGDLFHENKPSRK
 TLHSCLELLRKYCMGDRPVQFEVSDQSVNFGFSKFPWVNYQDGNLNIPIVFSIHGNHDDPTGADALCA
 LDVLSGAFVNHFGSRMSVEKVDISPVLLQKGSTKLALYGLSIPDERLYRMFVNKKVTMLRPKEDENSW
 FNLFVIHQNRSKHGNTNFIPEQFLDDFIDLVIWGHEHECKIGPIKNEQQLFYVSQPGSSVWTSLSPEAV
 KKHVGLLRKGRKMNMQKLPLRTVRRFFIEDVLANHPNLFNPDNPKVTQAIQSFCKIEEMLDSAERE
 RLGNPQPGKPLIRLRVDYSGGFEPFNVLRFSQKFVDRVANPKDVIHFFRHREQKGTGEEINFGMLITK
 PASEGATLRVEDLVKQYFQTAENKQVLSLLTERGMGEAVQEFVDKEEKDAIEELVKYQLEKTQRFKLRH
 IDALEDKIDEEVRRFRESRQRNTNEEDDEVREAMSRARALRSQSETSTSAFSAEDLSFDTSEQTANDSDD
 SLSAVPSRGRGRGRGRRGARGQSSAPRGGSSQRGRDGTGLEITTRGRSSKATSSTSRNMSIIDAFRSTRQP
 SRNVAPKNYSETIEVDDSDDEDIFPTNSRADQRWSGTTSSKRMSQSQTAKGVDFESDEDDDDDDPFMSSSC
 PRRNRR

TRTRPLEQLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	80.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_061206
Locus ID:	17535
UniProt ID:	Q61216 , Q3TU24 , Q3URU4
RefSeq Size:	3034
Cytogenetics:	9 A2
RefSeq ORF:	2118
Synonyms:	Mre11; Mre11b
Summary:	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.[UniProtKB/Swiss-Prot Function]