

Recombinant Human EME1 Protein (1-583 aa), His-SUMO-tagged

Cat. No. EME1-1106H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EME1 Protein (1-583 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Cell Biology. Protein Description: Full Length of Isoform 2.
Species	Human
Source	E.coli
ProteinLength	1-583 aa
Description	Interacts with MUS81 to form a DNA structure-specific endonuclease with substrate preference for branched DNA structures with a 5'-end at the branch nick. Typical substrates include 3'-flap structures, replication forks and nicked Holliday junctions. May be required in mitosis for the processing of stalled or collapsed replication forks.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	80.8 kDa
AA Sequence	MALKKSSPSLDSGDSDSEELPTFAFLKKEPSSTKRRQPEREEKIVVVDISDCEASCP PAPELFSPVPVEIAETVTQTQPVRLLSSESEDEEEFIPLAQRLTCKFLTHKQLSPEDS SSPVKSVLDHQNNEGASCDWKKPFKPIEVPLHDTPERSAADNKDLILDPCQQLPAY LSTCPGQSSSLAVTKTNSDILPPQKTKPSQKVQGRGSHGCRQQRQARQKESTLR RQERKNAALVTRMKAQRPEECLKHIIVVLDPVLLQMEGGGQLLGALQTMECRCVIEA

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QAVPCSVTWRRRAGPSEDREDWVEEPTVLVLLRAEAFVSMIDNGKQGSLDSTMKG
KETLQGFVTDITAKTAGKALSLVVDQEKCFSELLFFDFLPCTSAQNPPRRGKQGAN
KQTKKQQQRQPEASIGSMVSRVDAEEALVDLQLHTEAQAQIVQSWKELADFTCAFT
KAVAEAPFKLRDETTFSFCLESDWAGGVKVDLAGRGLALVWRRQIQQLNRVSLEM
ASAVVNAYPSPQLLVQAYQQCFSDKERQNLLADIQVRRGEGVTSTSRRIGPELSRRI
YLQMTTLQPHLSLDSAD

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name EME1 essential meiotic endonuclease 1 homolog 1 (S. pombe) [Homo sapiens]

Official Symbol EME1

Synonyms EME1; FLJ31364; MMS4L; SLX2A; hMMS4; MMS4 homolog;

Gene ID 146956

mRNA Refseq NM_001166131

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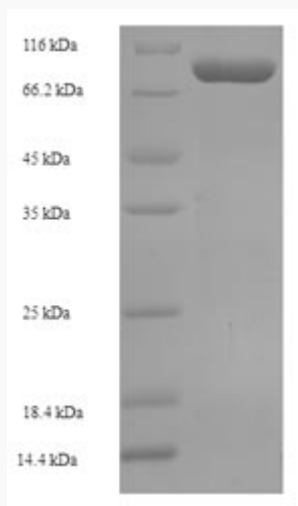
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Protein Refseq NP_001159603

MIM 610885

UniProt ID Q96AY2



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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