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

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

## SPECIFICATION

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| **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 PAPELFSPPVPEIAETVTQTQPVRLLSSESEDEEEFIPLAQRLTCKFLTHKQLSPEDS SSPVKSVLDHQNNEGASCDWKKPFPKIPEVPLHDTPERSAADNKDLILDPCCQLPAY LSTCPGQSSSLAVTKTNSDILPPQKKTKPSQKVQGRGSHGCRQQRQARQKESTLR RQERKNAALVTRMKAQRPEECLKHIIVVLDPVLLQMEGGGQLLGALQTMECRCVIEA |

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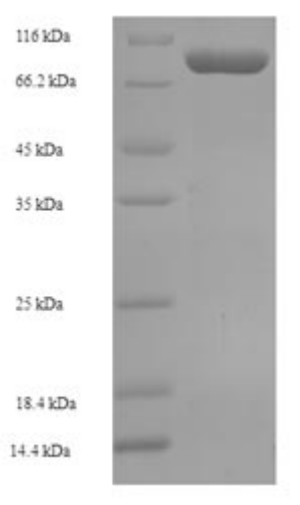
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| | QAVPCSVTWRRRAGPSEDREDWVEEPTVLVLLRAEAFVSMIDNGKQGSLDSTMKG KETLQGFVTDITAKTAGKALSLVIVDQEKCFSLELLFFDFLPCTSAQNPPRRGKQGAN KQTKKQQQRQPEASIGSMVSRVDAEEALVDLQLHTEAQAQIVQSWKELADFTCAFT KAVAEAPFKKLRDETTFSFCLESDWAGGVKVDLAGRGLALVWRRQIQQLNRVSLEM ASAVVNAYPSPQLLVQAYQQCFSDKERQNLLADIQVRRGEGVTSTSRRIGPELSRRI 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

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| **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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| **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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