

Recombinant Human EME1, GST-tagged

Cat. No. EME1-12431H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EME1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-350a.a.
Description	This gene encodes a protein that complexes with methyl methanesulfonate-sensitive UV-sensitive 81 protein to form an endonuclease complex. The encoded protein interacts with specific DNA structures including nicked Holliday junctions, 3-flap structures and aberrant replication fork structures. This protein may be involved in repairing DNA damage and in maintaining genomic stability. Alternative splicing results in multiple transcript variants.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	EME1 essential meiotic endonuclease 1 homolog 1 (S. pombe) [Homo sapiens]
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Official Symbol	EME1
Synonyms	EME1; essential meiotic endonuclease 1 homolog 1 (S. pombe); crossover junction endonuclease EME1; FLJ31364; MMS4L; SLX2 structure specific endonuclease subunit homolog A (S. cerevisiae); SLX2A; hMMS4; MMS4 homolog; homolog of yeast EME1 endonuclease; essential meiotic endonuclease 1 homolog 2; SLX2 structure-specific endonuclease subunit homolog A;
Gene ID	146956
mRNA Refseq	NM_001166131
Protein Refseq	NP_001159603
MIM	610885
UniProt ID	Q96AY2
Chromosome Location	17q21.33
Pathway	Fanconi anemia pathway, organism-specific biosystem; Fanconi anemia pathway, conserved biosystem; Homologous recombination, organism-specific biosystem; Homologous recombination, conserved biosystem;
Function	DNA binding; endonuclease activity; hydrolase activity; metal ion binding; protein binding;