

Recombinant E. coli mug Protein, His-tagged

Cat. No. mug-01E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E. coli mug protein(1-168), fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	E.coli
Source	E.coli
ProteinLength	1-168
Description	Excises ethenocytosine and uracil, which can arise by alkylation or deamination of cytosine, respectively, from the corresponding mispairs with guanine in ds-DNA. It is capable of hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of the DNA and the mispaired base. The complementary strand guanine functions in substrate recognition. Required for DNA damage lesion repair in stationary-phase cells.
Molecular Mass	21.1 kDa
AA Sequence	MGSSHHHHHHSSGLVPRGSHMGSMVEDILAPGLRVVFCGINPGLSSAGTGFPFAH PANRFWKVIYQAGFTDRQLKPQEAQHLLDYRCGVTKLVDRPTVQANEVSKQELHA GGRKLIKIEDYQPQALAILGKQAYEQGFSQRGAQWGKQTLTIGSTQIWVLPNPSGL SRVSLEKLVEAYRELDQALVVRGR
Purity	>90% by SDS-PAGE

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Stability	Shelf life: one year from despatch
Storage	Store undiluted at 2-8 centigrade for one week or (in aliquots) at -20 to -80 centigrade for longer. Avoid repeated freezing and thawing.
Storage Buffer	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol

GENE INFORMATION

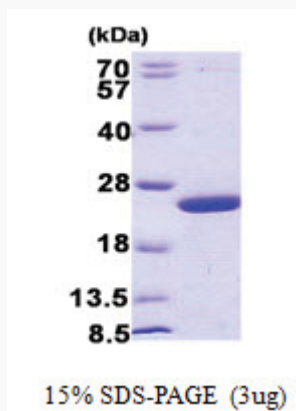
Gene Name	mug stationary phase mismatch/uracil DNA glycosylase [Escherichia coli str. K-12 substr. MG1655]
Official Symbol	mug
Synonyms	mug; stationary phase mismatch/uracil DNA glycosylase; ECK3058; yggF; stationary phase mismatch/uracil DNA glycosylase; EC 3.2.2.28
Gene ID	947560
Protein Refseq	NP_417540
UniProt ID	P0A9H1

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SDS-PAGE



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