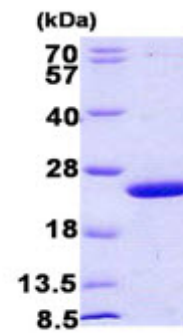


AR50881PU-N mug (1-168, His-tag) - Purified

Alternate names:	ECK3058, G/U mismatch-specific DNA glycosylase, JW3040, dug, xanthine DNA glycosylase, ygiF
Quantity:	0.25 mg
Concentration:	0.5 mg/ml (determined by Bradford assay)
Background:	G/U mismatch-specific DNA glycosylase, xanthine DNA glycosylase, also known as mug, belongs to the TDG/mug DNA glycosylase family. It has been proposed that the Mug protein excises 3, N4-ethenocytosine and removes the uracil base from mismatches in the order of U:G>U:A, although the biological role remains unclear. The enzyme Uracil-N-Glycosylase removes uracil from the DNA leaving an AP site. 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.
Uniprot ID:	POA9H1
NCBI:	NP_417540
GenelD:	947560
Source:	E. coli
Format:	State: Liquid purified protein Purity: >90% by SDS - PAGE Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol
Description:	Recombinant E.coli mug protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. AA Sequence: MGSSHHHHHHH SSGLVPRGSH MGSMVEDILA PGLRVVFCGI NPGLSSAGTG FPPFAHPANRF WKVIYQAGFT DRQLKPQEAQ HLLDYRCGVT KLVDRPTVQA NEVSKQELHA GGRKLIKIE DYQPQALAIL GKQAYEQGFS QRGAQWGKQT LTIGSTQIYW LPNPSGLSRV SLEKLVEAYR ELDQALVVRG R Molecular weight: 21.1 kDa (191aa) confirmed by MALDI-TOF
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Lee HW., et al. (2010) J Biol Chem. 285(53):41483-90 Gallinari P., et al. (1996) Nature. 383(6602):735-8.

Pictures:



15% SDS-PAGE (3ug)