

## Product datasheet for **AR50881PU-N**

### **mug (1-168, His-tag) Escherichia coli Protein**

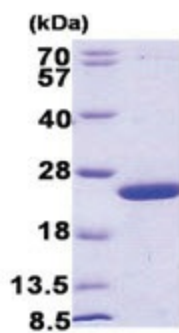
#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	mug (1-168, His-tag) recombinant protein, 0.25 mg
<b>Species:</b>	Escherichia coli
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MGSSHHHHHH SSGLVPRGSH MGSMVEDILA PGLRVVFCGI NPGLSAGTG PFAHPANRF WKVIYQAGFT DRQLKPQEAQ HLLDYRCGVT KLVD RPTVQA NEVSKQELHA GGRKLIKIE DYQPQALAIL GKQAYEQGFS QRG AQW GKQT LTIGSTQI WV LPNPSGLSRV SLEKLVEAYR ELDQALVVRG R
<b>Tag:</b>	His-tag
<b>Predicted MW:</b>	21.1 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>90% by SDS - PAGE
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	Recombinant E.coli mug protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Storage:</b>	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.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Summary:</b>	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.



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Product images:



15% SDS-PAGE (3ug)