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# Recombinant e.coli mutY protein

Catalog Number: ATGP2056

# **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

1-350aa

#### **UniProt No.**

P17802

#### **NCBI Accession No.**

NP 417436

#### **Alternative Names**

Adenine DNA glycosylase, ECK2956, JW2928, mica, mutB

### **PRODUCT SPECIFICATION**

### **Molecular Weight**

41.5 kDa (373aa) confirmed by MALDI-TOF

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

Adenine DNA glycosylase, also known as mutY, is an adenine DNA glycosylase active on DNA substrates containing A/G, A/8-oxoG, or A/C mismatches and also has a weak guanine glycosylase activity on G/8-oxoG-containing DNA. mutY is crucial for the avoidance of mutations resulting from oxidative DNA damage. Increasing levels of mutY in A549 cells exposed to oxygen and infrared radiation leads to improvements in cell survival. It is abundant in neurons where mitochondrial genomes exposed to reactive oxygen species (ROS) that damage DNA must maintain integrity over the entire mammalian life span. Recombinant E. coil mutY protein, fused to His-tag



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at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

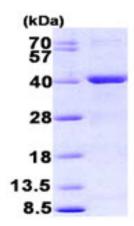
MGSSHHHHHH SSGLVPRGSH MGSMQASQFS AQVLDWYDKY GRKTLPWQID KTPYKVWLSE VMLQQTQVAT VIPYFERFMA RFPTVTDLAN APLDEVLHLW TGLGYYARAR NLHKAAQQVA TLHGGKFPET FEEVAALPGV GRSTAGAILS LSLGKHFPIL DGNVKRVLAR CYAVSGWPGK KEVENKLWSL SEQVTPAVGV ERFNQAMMDL GAMICTRSKP KCSLCPLQNG CIAAANNSWA LYPGKKPKQT LPERTGYFLL LQHEDEVLLA QRPPSGLWGG LYCFPQFADE ESLRQWLAQR QIAADNLTQL TAFRHTFSHF HLDIVPMWLP VSSFTGCMDE GNALWYNLAQ PPSVGLAAPV ERLLQQLRTG APV

#### **General References**

Lee H M., et al. (2004) J Neurochem. 88:394-400 Tao H., et al. (2004) Carcinogenesis. 25:1859-1866.

# **DATA**

# **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)