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AR50880PU-S mutY (1-350, His-tag) - Purified

Alternate names: Adenine DNA glycosylase, ECK2956, JW2928, mica, mutB

Quantity: 10 μg

Concentration: 0.25 mg/ml (determined by Bradford assay)

Background: 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.

 Uniprot ID:
 P17802

 NCBI:
 NP 417436

 GeneID:
 947447

 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.coil muty protein, fused to His-tag at N-terminus, was expressed in

E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH 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

Molecular weight: 41.5 kDa (373aa) confirmed by MALDI-TOF

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

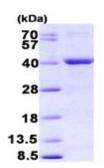
Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: Lee H M., et al. (2004) J Neurochem. 88:394-400Tao H., et al. (2004) Carcinogenesis.

25:1859-1866.



Pictures:



15% SDS-PAGE (3ug)