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**Product Data Sheet**


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Product Name: MutY E.Coli

Cat. No.: GP21964

Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ECK2956; JW2928; mica; mutB; mutY.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMQASQFS AQVLDWYDKY GRKTLPWQID KTPYKVLSE VMLQQTQVAT VIPYFERFMA RFPTVTDLAN APLDEVLHLW TGLGYYARAR NLHCAAQQA TLHGGKFPET FEEVAALPGV GRSTAGAILS LSLGKHPIL DGNVKRVLAR CYAVSGWPGK KEVENKLWSL SEQVTPAVGV ERFNQAMMDL GAMICTRSKP KCSLCPLQNG CIAAANNSWA LYPGKKPKQT LPERTGYFLL LQHEDEVLLA QRPPSGLWGG LYCFPQFADE ESLRQWLAQR QIAADNLTQL TAFRHTFSHF HLDIVPMWLP VSSFTGCMDE GNALWYNLAQ PPSVGLAAPV ERLQQLRTG APV.		
Formulation	The MutY solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl and 20% glycerol.		

**Introduction**

Adenine DNA glycosylase (mutY) is an adenine DNA glycosylase active on DNA substrates including 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 essential for the prevention of mutations resulting from oxidative DNA impairment. Rising levels of mutY in A549 cells exposed to oxygen and infrared radiation leads to improvements in cell survival. mutY is common in neurons where mitochondrial genomes exposed to reactive oxygen species that damage DNA must uphold integrity over the whole mammalian life span.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

MutY Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 373 amino acids (1-350) and having a molecular mass of 41.5kDa. MutY is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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