

32-2573: MutY Recombinant Protein

Alternative Name : ECK2956,JW2928,mica,mutB,mutY.

Description

Source : E.coli. 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. 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.

Product Info

Amount :	5 µg
Purification :	Greater than 90% as determined by SDS-PAGE.
Content :	The MutY solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl and 20% glycerol.
Storage condition :	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.
Amino Acid :	MGSSHHHHH SSGLVPRGSH MGSMQASQFS AQVLDWYDKY GRKTLPWQID KTPYKVLWSE VMLQQTQVAT VIPYFERFMA RFPTVTDLAN APLDEVHLW TGLGYARAR NLHAAQQA TLHGKFPET FEEVAALPGV GRSTAGAILS LSLGKHPIL DGNVKRVLAR CYAVSGWPGK KEVENKLWSL SEQVTPAVGV ERFNQAMMDL GAMICTRSKP KCSLCPLQNG CAAANNNSWA LYPGKKPKQT LPERTGYFLL LQHEDEVLLA QRPPSGLWGG LYCFQFADE ESLRQWLAQR QIAADNLTQL TAFRHTFSHF HLDIVPMWLP VSSFTGCMDE GNALWYNLAQ PPSVGLAAPV ERLQLRTG APV.

