

本公司提供的电子版说明书仅供参考，实验请以收到的纸质手册为准。

mutY, 1-350aa, E.coli, His tag, E.coli

产品货号: TP03052

第三版

别名: Adenine DNA glycosylase, ECK2956, JW2928, mica, mutB

**描述:** 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.coli mutY protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**配方:** Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol

**分子量:** 41.5 kDa (373aa) confirmed by MALDI-TOF

**序列:**

MGSSHHHHHSSGLVPRGSHMGSMQASQFSAQVLDWYDKYGRKTLPWQIDKTPYKVVWLSEVMLQQTQVATVIPYFER  
FMARFPTVTDLANAPLDEVLHLWTGLGYARARNLHKAQQVATLHGGKFPETFEEVAALPGVGRSTAGAILSLSLGKH  
FPILDGNVKRVLARCYAVSGWPGKKEVENKLWLSQVTPAVGVERFNQAMMDLGAMICTRSKPKCSLCPQNGCIAA  
ANNSWALYPGKKPKQTLPERTGYFLLLQHEDEVLLAQRPPSGLWGGLYCFPQFADEESLRQWLAQRQIAADNLTQLTAFR  
HTFSHFHLDIVPMWLPVSSFTGCMDEGNALWYNLAQPPSVGLAAPVERLLQQLRRTGAPV

**纯度:** > 95% by HPLC

**浓度:** 0.25 mg/ml (determined by Bradford assay)

**内毒素:** <1.0 EU per 1 ug of protein (determined by LAL method)

**存储:** +4 ° C 保存 (1-2 周). 长期保存在 -20 ° C 或者 -70 ° C. 避免反复冻融.