

mutM, 1-269 aa, E.coli, His tag, E.coli

Cat.NO.: TP03051

3th Edition

Synonyms:Formamidopyrimidine-DNA glycosylase, fpg.

Description:mutM, also known as formamidopyrimidine DNA glycosylase, is a base excision repair enzyme which recognizes and removes a wide range of oxidized purines from correspondingly damaged DNA. This protein is nonredundant and required to rapidly remove its substrate lesions on the chromosome. In addition, it also repaired a significant portion of the lesions recognized by Endo III, suggesting that it plays a prominent role in the global repair of both purine damage and pyrimidine damage in vivo.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl,1mM DTT

Molecular Weight:32.4 kDa (289aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMPELPEVETSRRGIEPHLVGATILHAVVRNGRLRWPVSEEIYRLSDQPVLVSVQRR
AKYLLLELPEGWIIHLLGMSGSLRILPEELPPEKHDHVDLVM SNGKVLRYTDP RRF GAWLWTKELEGHNVLTHLGPE
PLSDDFNGEYLHQKCAKKKTAIKPWLM DNKL VVG VGN IYASESLFAAGIHPDRLASSLSLAECCELLARVIKAVLLRSIE
QGGTTLKDFLQSDGKPGYFAQELQVYGRKG EPCRVC GTPIVATKHAQRATFYCRQCQK

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.