

Recombinant Human MPG, His-tagged

Cat. No. MPG-1009H Lot. No. (See product label)

SPECIFICATION

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|---------------------------------|---|
| Product Overview | Recombinant human MPG protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-298aa). |
| Species | Human |
| Source | E.coli |
| Description | MPG (DNA-3-methyladenine glycosylase) belongs to the DNA glycosylase MPG family. This protein initiates base excision repair in DNA by removing a wide variety of alkylated, deaminated, and lipid peroxidation-induced purine adducts. |
| Form | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 200mM NaCl, 1mM EDTA |
| Molecular Weight | 33.9kDa (306aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher) |
| Purity | > 90% by SDS - PAGE |
| Concentration | 0.25mg/ml (determined by Bradford assay) |
| Sequences Of Amino Acids | MVTPALQMKK PKQFCRRMGQ KKQRPARAGQ PHSSSDAAQA PAEQPHSSSD AAQAPCPRER CLGPPTTPGP YRSIYFSSPK GHLTRLGLEF FDQPAVPLAR AFLGQVLVRR LPNGTELRGR IVETEAYLGP EDEAAHSRGG RQTPRNRGMF MKPGTLYVYI IYGMYFCMNI SSQGDGACVL LRALEPLEGL ETMRQLRSTL |

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RKGTASRVLK DRELCSGPSK LCQALAINKS FDQRDLAQDE AVWLERGGLE
 PSEPAVVAAA RVGVGHAGEW ARKPLRFYVR GSPWVSVVDR VAEQDTQALE
 HHHHHH

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.

GENE INFORMATION
Gene Name

MPG N-methylpurine-DNA glycosylase [Homo sapiens]

Official Symbol

MPG

Synonyms

MPG; N-methylpurine-DNA glycosylase; AAG; MDG; ADPG; APNG; Mid1; anpg; PIG11; PIG16; CRA36.1; DNA-3-methyladenine glycosylase; OTTHUMP0000004-5554; OTTHUMP00000067137; OTTHUMP00000194908; alkyladenine DNA glycosylase; 3-alkyladenine DNA glycosylase; 3-methyladenine DNA glycosidase; prolifera- tion-inducing protein 11; proliferation-inducing protein 16; N-methylpurine-DNA glycosylase, MPG; CRA36.1 (3-methyl-adenine DNA glycosylase); 3' end of the Mid1 gene, localized 68 kb upstream the humanzeta globin gene on 16p; EC 3.2.2.21; ANPG; MID1

Gene ID

4350

mRNA Refseq

NM_002434

Protein Refseq

NP_002425

MIM

156565

UniProt ID

P29372

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| Chromosome Location | 16p13.3 |
| Function | DNA N-glycosylase activity; alkylbase DNA N-glycosylase activity; damaged DNA binding; hydrolase activity; identical protein binding; protein binding |

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