Recombinant human MPG protein

Catalog Number: ATGP1134

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-298aa

UniProt No.
P29372

NCBI Accession No.
NP_002425.2

Alternative Names
DNA-3-methyladenine glycosylase, AAG, ADPG, anpg, APNG, CRA36.1, MDG, Mid1, PIG11, PIG16

PRODUCT SPECIFICATION

Molecular Weight
33.9 kDa (306aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 200mM NaCl, 1mM EDTA

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human MPG protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence
MVTPALQMKK PKQFCRRMGQ KKQRPARAGQ PHSSSDAAQA PAEQPHSSSD AAQAPCPRER CLGPPTTPGP YRSIYFSSPK

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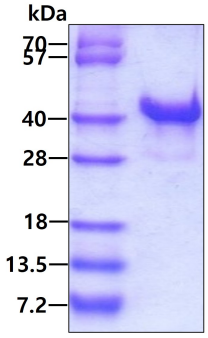
GHLTRLGLEF FDQPAVPLAR AFLGQVLVRR LPNGTELRGR IVETEAYLGP EDEAAHSRGG RQTPRNRGMF MKPGTLYVYI IYGMYFCMNI SSQGDGACVL LRALEPLEGL ETMRQLRSTL RKGTASRVLK DRELCSGPSK LCQALAINKS FDQRDLAQDE AVWLERGPLE PSEPAVVAAA RVGVGHAGEW ARKPLRFYVR GSPWVSVVDR VAEQDTQA<LE HHHHHH>

General References

Adhikari S., et al. (2009) DNA Repair (Amst). 8(10):1201-6.
Allan, J.M., et al. (1998) Cancer Res. 58: 3965-3973.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.