

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 PHSSDAAQA PAEQPHSSD AAQAPCPRER CLGPPTTPGP YRSIYFSSPK

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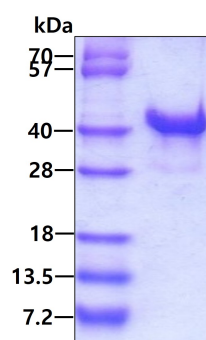
GHLTRLGLEF FDQPAVPLAR AFLGQVLVRR LPNGTELRGR IVETEAYLGP EDEAAHSRGG RQTPRNRGMF MKPGTLYVYI
IYGMVFCMNI SSQGDGACVL LRALEPLEGL ETMRQLRSTL RKG TASRVLK DRELCSGPSK LCQALAINKS FDQRDLAQDE
AVWLERGP LE PSEPAVVAAA RVGVGHAGEW ARKPLRFYVR GSPWVSVVDR VAEQDTQA<LE HHHHHH>

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.