

MPG Human

Description: MPG Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 306 amino acids (1-298 a.a.) and having a molecular mass of 33.9kDa (Molecular weight on SDS-PAGE will appear higher). MPG is fused to an 8 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: ENPS-158

For research use only.

Synonyms: DNA-3-methyladenine glycosylase, 3-alkyladenine DNA glycosylase, 3-methyladenine DNA glycosidase, ADPG, N-methylpurine-DNA glycosylase, MPG, AAG, ANPG, MID1, MDG, PIG11, PIG16, CRA36.1.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MVTPALQMKK PKQFCRRMGQ KKQRPARGQ PHSSDAAQA
PAEQPHSSSD AAQAPCPRER CLGPPTTPGP YRSIYFSSPK GHLTRLGLEF FDQPAVPLAR
AFLGQVLVRR LPNGTELGR IVETEAYLGP EDEAAHSRGG RQTPRNRGMF MKPGTLYVYI
IYGYFCMNI SSQGDGACVL LRALEPLEGL ETMRQLRSTL RKGTA SRVLK DRELCSGPSK
LCQALAINKS FD

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

MPG protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 30% glycerol, 200mM NaCl and 1mM EDTA.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

DNA-3-methyladenine glycosylase (MPG) is a member of the DNA glycosylase MPG family. MPG initiates base excision repair in DNA by removing a wide variety of alkylated, deaminated, and lipid peroxidation-induced purine adducts.

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