
Product Data Sheet

Product Name: MPG Human
 Cat. No.: GP21951
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MVTPALQMKK PKQFCRRMGQ KKQRPARAGQ PHSSSDAAQA PAEQPHSSSD AAQAPCPRER CLGPPTTPGP YRSIYFSSPK GHLTRLGLEF FDQPAVPLAR AFLGQVLVRR LPNGTELRRGR IVETEAYLGP EDEAAHSRGG RQTPRNRGMF MKPGTLYVYI IYGMFYCMNI SSQGDGACVL LRALEPLEGL ETMRQLRSTL RKG TASRVLK DRELCSGPSK LCQALAINKS FDQRDLAQDE AVWLERGP LE PSEPAVVAAA RVGVGHAGEW ARKPLRFYVR GSPWVSVVDR VAEQDTQALE HHHHHH.		
Formulation	MPG protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 30% glycerol, 200mM NaCl and 1mM EDTA.		

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.

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.

Background

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

Caution: Product has not been fully validated for medical applications. For research use only.

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(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.

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