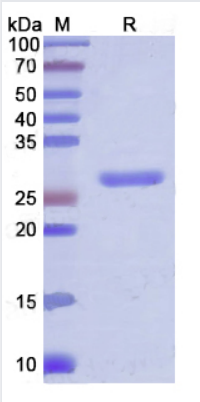
MPG Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	MPG, Recombinant Protein
Full Product Name	Recombinant Human MPG, N-His
Product Gene Name	MPG recombinant protein
Product Synonym Names	ANPG; MPG; N-methylpurine-DNA glycosylase; 3-methyladenine DNA glycosidase; AAG; ADPG; MID1; DNA-3-methyladenine glycosylase; 3-alkyladenine DNA glycosylase
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	30,824 Da
Sequence Positions	Pro70-Thr296
OMIM	156565
3D Structure	ModBase 3D Structure for P29372
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for MPG recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for MPG recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for MPG recombinant protein	MBS1573793 is a recombinant protein targeting MPG. Also known as Recombinant Human MPG, N-His. Host: E coli.
Other Notes	Small volumes of MPG recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of MPG recombinant protein
SDS PAGE for recombinant Human MPG protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MPG. It may not necessarily be applicable to this product.

NCBI GI #	62632765
NCBI GeneID	4350
NCBI Accession #	NP_001015052.1
UniProt Primary Accession #	P29372
UniProt Secondary Accession #	Q13770; Q15275; Q15961; Q5J9I4; Q96BZ6; Q96S33; Q9NNX5; G5E9E2
UniProt Related Accession #	P29372
GenBank Nucleotide #	NM_001015052.2
NCBI Official Full Name	DNA-3-methyladenine glycosylase isoform b
NCBI Official Synonym Full Names	N-methylpurine-DNA glycosylase
NCBI Official Symbol	MPG
NCBI Official Synonym Symbols	AAG; MDG; ADPG; APNG; Mid1; anpg; PIG11; PIG16; CRA36.1
UniProt Protein Name	DNA-3-methyladenine glycosylase
UniProt Synonym Protein Names	3-alkyladenine DNA glycosylase; 3-methyladenine DNA glycosidase; ADPG; N-methylpurine-DNA glycosylase
Protein Family	DNA-3-methyladenine glycosylase
UniProt Gene Name	MPG
UniProt Synonym Gene Names	AAG; ANPG; MID1
UniProt Entry Name	3MG_HUMAN
NCBI Protein Information	DNA-3-methyladenine glycosylase; 3' end of the Mid1 gene, localized 68 kb upstream the humanzeta globin gene on 16p; 3-alkyladenine DNA glycosylase; 3-methyladenine DNA glycosidase; CRA36.1 (3-methyl-adenine DNA glycosylase); N-methylpurine-DNA glycosylas

UniProt Comments for MPG	MPG: Hydrolysis of the deoxyribose N-glycosidic bond to excise 3-methyladenine, and 7-methylguanine from the damaged DNA polymer formed by alkylation lesions. Belongs to the DNA glycosylase MPG family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.2.2.21; Hydrolase; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 16p13.3 Cellular Component: nucleoplasm Molecular Function: protein binding; alkylbase DNA N-glycosylase activity; DNA-3-methyladenine glycosylase I activity; damaged DNA binding Biological Process: DNA dealkylation; base-excision repair, AP site formation; depurination; base-excision repair; DNA repair
Research Articles on MPG	**1.** High MPG DNA repair assays for two different oxidative DNA lesions reveal associations with increased lung cancer risk.
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