DNA-3-methyladenine glycosylase (MAG), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP00478*

Size *0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana DNA-3-methyladenine glycosylase (MAG)

Product Gene Name
MAG recombinant protein

Product Synonym Gene Name
MAG

Purity
Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence
MKTPARRSKR VNQEESETNV TTRVVLRTRK TNCSKTRAAR VRPDYPLTRT TSESEMKLMP PEFFQIDALD LAPRLLGKFM RRDNVVLRIT EVEAYRPNDS ACHGRFGVTP RTAPVFGPGG HAYVYLCYGL HMMLNIVADK EGVGAAVLIR SCSPVSGMET IQERRGLKTD KPVLLNGPGK VGQALGLSTE WSHHPLYSPG GLELLDGGED VEKVMVGPRV GIDYALPEHV NALWRFAVAD TPWISAPKNT LKPL

Sequence Positions
1-254, Full length protein

Format
Lyophilized or liquid (Format to be determined during the manufacturing process)

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
28,133 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Allergen

NCBI Accession
NP_187811.1

NCBI GI
15229928

NCBI GenBank Nucleotide
NM_112038.3

NCBI GeneID

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

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820378

NCBI Official Full Name
DNA-3-methyladenine glycosylase (MAG)

NCBI Official Symbol
AT3G12040

NCBI Official Synonym Symbols
MEC18.4

NCBI Protein Information
DNA-3-methyladenine glycosylase (MAG)

NCBI Summary
Encodes a 3-methyladenine-DNA glycosylase. Arabdiopsis cDNA complements the methyl methanesulfonate-sensitive phenotype of an Escherichia coli double mutant deficient in 3-methyladenine glycosylases (DNA-3-methyladenine glycosidases I and II, EC 3.2.2.20 and 3.2.2.21, respectively, encoded by tag and alkA).

UniProt Gene Name
MAG

UniProt Protein Name
DNA-3-methyladenine glycosylase

UniProt Synonym Protein Names
3-methyladenine DNA glycosidase

UniProt Primary Accession
Q39147

UniProt Related Accession
Q39147

UniProt Comments
Hydrolysis of the deoxyribose N-glycosidic bond to excise 3-methyladenine, and 7-methylguanine from the damaged DNA polymer formed by alkylation lesions.

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/