

Recombinant Human MGMT Protein, His-tagged

Cat. No. MGMT-004H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MGMT protein with a N-terminal His-tag was expressed in E. coli
Species	Human
Source	E.coli
Description	Alkylating agents are potent carcinogens that can result in cell death, mutation and cancer. The protein encoded by this gene is a DNA repair protein that is involved in cellular defense against mutagenesis and toxicity from alkylating agents. The protein catalyzes transfer of methyl groups from O(6)-alkylguanine and other methylated moieties of the DNA to its own molecule, which repairs the toxic lesions. Methylation of the genes promoter has been associated with several cancer types, including colorectal cancer, lung cancer, lymphoma and glioblastoma.
Molecular Mass	26.8 kDa
Purity	≥50% estimated by SDS-PAGE
Stability	≥ 6 months
Storage	-80 centigrade
Storage Buffer	50 mM Tris, pH 8.0, 150 mM sodium chloride, 10% glycerol

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Shipping Dry ice in continental US, may vary elsewhere.

GENE INFORMATION

Gene Name [MGMT O-6-methylguanine-DNA methyltransferase\[Homo sapiens \(human\) \]](#)

Official Symbol [MGMT](#)

Synonyms MGMT; O-6-methylguanine-DNA methyltransferase; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini; Catarrhini; Hominidae; Homo; methylated-DNA--protein-cysteine methyltransferase; 6-O-methylguanine-DNA methyltransferase; O-6-methylguanine-DNA-alkyltransferase; O6-methylguanine-DNA methyltransferase; methylguanine-DNA methyltransferase; EC 2.1.1.63

Gene ID [4255](#)

mRNA Refseq [NM_002412](#)

Protein Refseq [NP_002403](#)

MIM [156569](#)

UniProt ID [P16455](#)

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