

Recombinant Full Length Human MGMT Protein, His tagged

Cat. No. MGMT-121H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MGMT Protein (1-207 aa) with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-207 aa
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	23 kDa
AASequences	MDKDCMKRTTLDSP LGKLELSGCEQGLHEIKLLGKGTSAADAVEVPAPAAVLGGP EPLMQCTAWLNAYFHQPEAIEEFVPALHHPVFQQESFTRQVLWKLKVVKFGEVIS YQQLAALAGNPKAARAVGGAMRGNPVPILIPCHRVVCSSGAVGNYSGLAVKEWLL AHEGHR LGKPGLGGSSGLAGAWLKGAGATSGSP PAGRNNHHHHHHHH
Endotoxin	< 1 EU/μg by LAL

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Purity	> 90% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Sterile PBS, pH7.4
Concentration	0.5 mg/mL
GENE INFORMATION	
Gene Name	MGMT O-6-methylguanine-DNA methyltransferase [Homo sapiens (human)]
Official Symbol	MGMT
Synonyms	MGMT; O-6-methylguanine-DNA methyltransferase; methylated-DNA--protein-cysteine methyltransferase; methylguanine-DNA methyltransferase; O-6-methylguanine-DNA-alkyltransferase; O6-methylguanine-DNA methyltransferase; 6-O-methylguanine-DNA methyltransferase;
Gene ID	4255
mRNA Refseq	NM_002412
Protein Refseq	NP_002403
MIM	156569
UniProt ID	P16455

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