

Recombinant Full Length Human MGMT Protein, C-Flag-tagged

Cat. No. MGMT-1344HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MGMT Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	24.9 kDa
AA Sequence	MLGQPAPLERFASRRPQVLAVRTVCDLVLGKMDKDCMKRTTLDSP LGKLELSGCE QGLHEIKLLGKGTS AADAVEVPAPAAVLGGPEPLMQCTAWLNAYFHQPEAIEEFPV PALHHPVFQQESFTRQVLWKLLKVVKFG EVISYQQLAALAGNPKAARAVGGAMRG NPVPILIPCHRVVCSGAVGNYSGLAVKEWLLAHEGHRLGKP GLGGSSGLAGAWLKGAGATSGSPAGRNTRTRPLEQKLISEEDLAANDILDYKDDD

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	DKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Full Length	Full L.

GENE INFORMATION

Gene Name	MGMT O-6-methylguanine-DNA methyltransferase [Homo sapiens (human)]
Official Symbol	MGMT
Synonyms	methylguanine-DNA methyltransferase; O-6-methylguanine-DNA methyltransferase; O6-methylguanine-DNA methyltransferase; OTTHUMP00000020741
Gene ID	4255
mRNA Refseq	NM_002412.5

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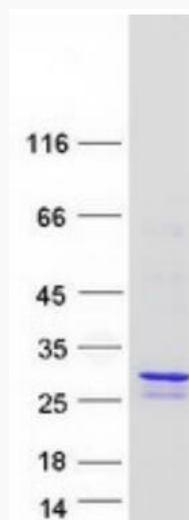
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Protein Refseq NP_002403.3

MIM 156569

UniProt ID P16455



Coomassie blue staining of purified MGMT protein.

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