

Recombinant Full Length Human MGMT Protein, GST-tagged

Cat. No. MGMT-6517HF Lot. No. (See product label)

SPECIFICATION

Product Overview Human MGMT full-length ORF (AAH00824, 1 a.a. - 207 a.a.) recombinant protein with GST-tag at N-terminal.

Species Human

Source In Vitro Cell Free System

ProteinLength 207 amino acids

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. [provided by RefSeq, Sep 2015]

Molecular Mass 48.4 kDa

AA Sequence MDKDCMKRRTTLDSP LGKLELSGCEQGLHEIKLLGKGTSAADAVEVPAPAAVLGGP
EPLMQCTAWLNAYFHQPEAIEEFPVPALHHPVFQQESFTRQVLWKLKVVKFGGEVIS
YQQLAALAGNPKAARAVGGAMRGNPVPILIPCHRVCSSGAVGNYSGLAVKEWLL
AHEGHRLGKPG LGGSSGLAGAWLKGAGATSGSP PAGR N

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Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	MGMT O-6-methylguanine-DNA methyltransferase [Homo sapiens]
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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