

MGMT recombinant protein

MGMT, 1-207aa, Human, His tag, E Coli

CATALOG # AAA48518	HOST E Coli	APPLICATIONS SDS-Page
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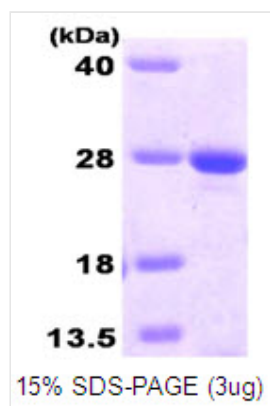
PRODUCT SYNONYMS

MGMT; 1-207aa; Human; His tag; E Coli; O-6-methylguanine-DNA methyltransferase; EC 2.1.1.63; O-6-methylguanine-DNA-alkyltransferase; O-6-methylguanine-DNA methyltransferase 6 O methylguanine DNA methyltransferase; Agat; AGT; AI267024; MGC107020; Methylated DNA protein cysteine methyltransferase; Methylguanine DNA methyltransferase; O 6 methylguanine DNA alkyltransferase.; MGMT recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 7.5) containing 1 mM DTT, 10% glycerol
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSSLVPRGSH MDKDCMKRT TLDSPGKLE LSGCEQGLHE IKLLGKGTSA ADAVEVPAPA AVLGGPEPLM QCTAWLNAYF HQPEAIEEFP VPAFHHPVFQ QESFTRQVLW KLLKVVKFGE VISYQQLAAL AGNPKAARAV GGAMRGNPVP ILIPCHRVVC SSGAVGNYSGLAVKEWLLA HEGHRLGKPG LGGSSGLAGA WLKGAGATSG SPPAGRN
Sequence Length	238
Applicable Applications for MGMT recombinant protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for MGMT recombinant protein	O-6-methylguanine-DNA methyltransferase (MGMT) is an enzyme that repairs O-6-methylguanine, a mutagenic DNA base damaged by endogenous and environmental alkylating agents and is involved in the cellular defense against the biological effects of O-6-methylguanine in DNA. MGMT repairs alkylated guanine in DNA by stoichiometrically transferring the alkyl group at the O-6 position to a cysteine residue in the enzyme. There are few reports that abnormal MGMT expression correlates with the prognosis in human solid cancers. Recombinant MGMT, fused to His-tag at N-terminus, was expressed in E Coli and was purified by conventional chromatography techniques.
Product Categories/Family for MGMT recombinant protein	Enzymes & Proteases
References	Matsukura S., et al. (2001) Annals of Surgical Oncology, 8 (10):807--816; Esteller M.,et al. (2002) J Natl Cancer Inst. 2, 26-32.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	197304670
NCBI GeneID	4255
NCBI Accession #	NP_002403
NCBI GenBank Nucleotide #	NM_002412.4
Molecular Weight	23.8 kDa (227 aa), confirmed by MALDI-TOF. (Molecular weight on SDS-PAGE will appear higher)
NCBI Official Full Name	methylated-DNA--protein-cysteine methyltransferase
NCBI Official Synonym Full Names	O-6-methylguanine-DNA methyltransferase
NCBI Official Symbol	MGMT
NCBI Protein Information	methylated-DNA--protein-cysteine methyltransferase
UniProt Protein Name	Methylated-DNA--protein-cysteine methyltransferase
UniProt Gene Name	MGMT
UniProt Synonym Gene Names	MGMT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.