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Product datasheet for TP329131

MGMT (NM_002412) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human O-6-methylguanine-DNA methyltransferase (MGMT), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC229131 representing NM_002412 Red=Cloning site Green=Tags(s) MLGQPAPLERFASRRPQVLAVRTVCDLVLGKMDKDCEMKRTTLDSPLGKLELSGCEQGLHEIKLLGKGTS AADAVEVPAPAAVLGGPEPLMQCTAWLNAYFHQPEAIEEFPVPALHHPVFQQESFTRQVLWKLLKVVKFG EVISYQQLAALAGNPKAARAVGGAMRGNPVPILIPCHRVVCSSGAVGNYSGGLAVKEWLLAHEGHRLGKP GLGGSSGLAGAWLKGAGATSGSPPAGRN TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	24.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002403
Locus ID:	4255
UniProt ID:	P16455, B4DEE8

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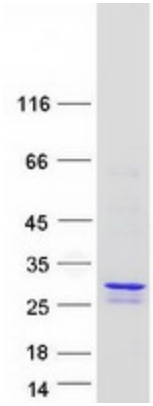
Cytogenetics: 10q26.3

RefSeq ORF: 714

Summary: 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]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified MGMT protein (Cat# TP329131). The protein was produced from HEK293T cells transfected with MGMT cDNA clone (Cat# [RC229131]) using MegaTran 2.0 (Cat# [TT210002]).