

## MGMT Protein, Human, Recombinant (His)

## General Information

Synonyms:	MGMT;6-O-methylguanine-DNA methyltransferase;O-6-methylguanine-DNA-alkyltransferase;Methylated-DNA--protein-cysteine methyltransferase
Protein Construction:	Met1-Asn207
Species:	Human
Expression Host:	E. coli
Accession:	P16455
Molecular Weight:	25 KDa (reducing condition)
AA Sequence:	Met1-Asn207

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 90% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 1 mM DTT, 1 mM EDTA, 500 mM NaCl, 0.1% Triton X-100, pH 8.0.

## Preparation and Storage

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

Proteins are shipped with blue ice.

## Protein Background

MGMT belongs to the family of transferases, specifically those transferring one-carbon group methyltransferases. MGMT involved in the cellular defense against the biological effects of O6-methylguanine in DNA. Repairs alkylated guanine in DNA by stoichiometrically transferring the alkyl group at the O-6 position to a cysteine residue in the enzyme. MGMT catalyzes the chemical reaction: DNA (containing 6-O-methylguanine) and protein-L-cysteine into DNA (without 6-O-methylguanine) and protein S-methyl-L-cysteine.

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