

[Go to Product page](#)

## Datasheet for ABIN7318122 MGMT Protein (His tag)

### Overview

Quantity:	50 µg
Target:	MGMT
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MGMT protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human MGMT Protein (His Tag)
Sequence:	Met 1-Asn207
Characteristics:	Recombinant Human Methylated-DNA--protein-cysteine methyltransferase is produced by our E.coli expression system and the target gene encoding Met1-Asn207 is expressed with a 6His tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	MGMT
Alternative Name:	MGMT ( <a href="#">MGMT Products</a> )
Background:	Background: MGMT belongs to the family of transferases, specifically those transferring one-carbon group methyltransferases. MGMT involved in the cellular defense against the biological

## Target Details

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.

Synonym: Methylated-DNA--protein-cysteine methyltransferase, 6-O-methylguanine-DNA methyltransferase, O-6-methylguanine-DNA-alkyltransferase, MGMT

Molecular Weight: 23.8 kDa

UniProt: [P16455](#)

Pathways: [DNA Damage Repair](#), [Positive Regulation of Response to DNA Damage Stimulus](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Frozen, Liquid

Buffer: Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 1 mM EDTA, pH 8.0 .

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.