

Recombinant Human MGMT (N-6His)

Catalog No: CG86

Description	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.
Expression System	E.coli
Alternative name	Methylated-DNA--protein-cysteine methyltransferase; 6-O-methylguanine- DNAmethyltransferase; O-6-methylguanine-DNA-alkyltransferase; MGMT
Accession No.	P16455
Mol Mass	23.8kDa
AP Mol Mass	25kDa, reducing conditions.
Quality Control	Purity: greater than 95% as determined by reducing SDS-PAGE. Endotoxin: less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation	Supplied as a 0.2 μm filtered solution of 20mMTrisHCl, 1mM EDTA, pH 8.0 .
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
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 proteinL-cysteine into DNA (without 6-O-methylguanine) and protein S-methyl-L-cysteine.

SDS-PAGE

