



# Recombinant Protein Technical Manual

## Recombinant Human MGMT Protein (His Tag)

RPES1838

### Product Data:

**Product SKU:** RPES1838

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P16455

### Protein Information:

**Molecular Mass:** 23.8 kDa

**AP Molecular Mass:** 25 kDa

**Tag:** N-6His

**Bio-activity:**

**Purity:** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

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

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

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

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Methylated-DNA--protein-cysteine methyltransferase; 6-O-methylguanine-DNA methyltransferase; O-6-methylguanine-DNA-alkyltransferase; MGMT

## Immunogen Information:

**Sequence:** Met 1-Asn207

## 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.