

mgMT, 1-207aa, Human, His-tagged, Recombinant, E.coli

Cat.NO.: TP02967

3th Edition

Synonyms:O-6-methylguanine-DNA methyltransferase

Description:O-6-methylguanine-DNA methyltransferase (MGMT) is an enzyme that repairs O-6-methylguanine, a mutagenic DNA base damaged by endogenous and environmental alkylating agents and is involved in the cellular defense against the biological effects of O-6-methylguanine in DNA. MGMT repairs alkylated guanine in DNA by stoichiometrically transferring the alkyl group at the O-6 position to a cysteine residue in the enzyme.

Form:Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 1 mM DTT, 10% glycerol

Molecular Weight:23.8 kDa (227 aa) (Real molecular weight on SDS-PAGE will be shift up)

Sequences:

MGSSHHHHHHSSGLVPRGSHMDKDCMKRRTTLDSP LGKLELSGCEQGLHEIKLLGKGTSAADAVEVPAPAAVLG
GPEPLMQCTAWLNAYFHQPEAIEEFPVPAFHHPVFQQESFTRQVLWKLLKVVKFGEVISYQQLAALAGNPKAARAV
GGAMRGNPVPILIPCHRVCSSGAVGNYSGLAVKEWLLAHEGHRLGKPGGLGGSSGLAGAWLKGAGATSGSPPA
GRN

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.