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Recombinant Human MGMT Protein (His Tag)

Catalog No. PKSH032031

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Methylated-DNA--protein-cysteine methyltransferase;6-O-methylguanine-

DNAmethyltransferase;O-6-methylguanine-DNA-alkyltransferase;MGMT

Species Human
Expression Host E.coli

Sequence Met 1-Asn207

AccessionP16455Calculated Molecular Weight23.8 kDaObserved molecular weight25 kDaTagN-His

Bioactivity Not validated for activity

Properties

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

Endotoxin < 1.0 EU per μg of the protein as determined by the LAL method.

Storage Storage Store at $< -20^{\circ}$ 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

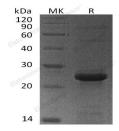
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl,1mM DTT,1mM

EDTA,500mM NaCl,0.1%Trition X-100,pH 8.0.

Reconstitution Not Applicable

Data



> 90 % as determined by reducing SDS-PAGE.

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-

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methylguanine) and protein S-methyl-L-cysteine.

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