

Recombinant Full Length Human DNMT1 Protein, His&GST tagged

Cat. No. DNMT1-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length recombinant DNMT1 protein (accession number NP_001370.1) was expressed in Sf9 cells and contains an N-terminal 6×His Tag and FLAG-Tag with a molecular weight of 188.2 kDa.
Species	Human
Source	Insect Cells
ProteinLength	1-1616 aa
Description	DNMT1 (DNA (Cytosine-5-)-Methyltransferase 1) proteins are involved in DNA methylation in which a methyl group is added to a cytosine residue on DNA, commonly at the C5 position of a CpG dinucleotide. Three families of DNMTs have been identified: DNMT1, DNMT2, and DNMT3 (comprised of DNMT3A and DNMT3B). DNMT1 is the most abundant DNMT in somatic cells and shows a preference for methylating hemi-methylated DNA. It is considered to be a maintenance DNA methyltransferase that is important in the maintenance of specific patterns of methylation throughout cellular divisions. Methylation of mammalian DNA has long been recognized to play a major role in a number of cellular functions such as embryonic development, genetic imprinting, X chromosome inactivation and the control of gene expression. DNA methylation is generally associated with transcriptional repression.
Form	25 mM HEPES NaOH pH 7.5, 500 mM NaCl, 10% glycerol, 0.04% Triton X-100, and

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	0.5 mM TCEP.
Molecular Mass	188.2 kDa
Purity	> 90% by SDS-PAGE.
Applications	Recombinant DNMT1 protein is suitable for use in enzyme kinetics, inhibitor screening, and selectivity profiling. DNMT Activity Assay Conditions: Assay was performed using DNMT Activity / Inhibition Assay, for 1 hour at 37 centigrade.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Concentration	0.8 µg/µL

GENE INFORMATION

Gene Name	DNMT1 DNA (cytosine-5-)-methyltransferase 1 [Homo sapiens (human)]
Official Symbol	DNMT1
Synonyms	DNMT1; DNA (cytosine-5-)-methyltransferase 1; DNMT; DNA (cytosine-5)-methyltransferase 1; CXXC9; MCMT; m.HsaI; DNA MTase HsaI; CXXC finger protein 9; DNA methyltransferase 1; DNA methyltransferase HsaI; CXXC-type zinc finger protein 9; AIM; HSN1E; FLJ16293; MGC104992;
Gene ID	1786
mRNA Refseq	NM_001130823

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

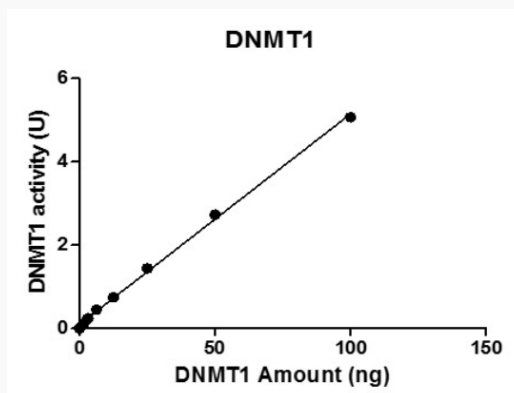
 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq NP_001124295

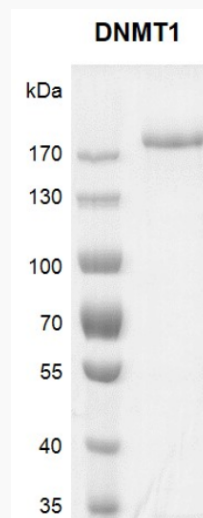
MIM 126375

UniProt ID P26358

Activity



SDS-PAGE and WB



Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA