

DNMT1 recombinant protein

Recombinant Human DNMT1 Protein

CATALOG # AAA55963	HOST E. coli AA 1288-1632 (P26358).	REACTIVITY Viral
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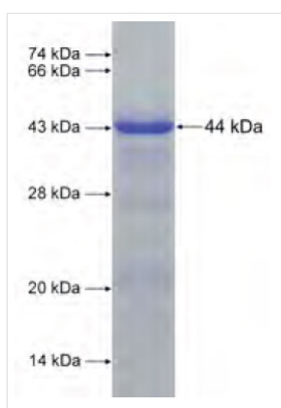
PRODUCT SYNONYMS

DNMT1; Recombinant Human DNMT1 Protein; CXXC9; DNMT; MCMT; Cytosine-5 DNA Methyltransferase 1; CXXC-type zinc finger protein 9; DNA methyltransferase Hsa.; DNMT1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E. coli AA 1288-1632 (P26358).
Reactivity	Viral
Purity/Purification	> 85 % as determined by SDS-PAGE.
Form/Format	PBS (58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 68 mM NaCl, 5% trehalose, pH 7.0) added with 300 mM Imidazole and 15% glycerol.
Concentration	0.4 mg/mL (varies by lot)
Sequence	VSEKRSMLVK LTLRCLVRMG YQCTFGVLQA GQYGVAQTRR RAILAAAPG EKLPLFPEPL HVFAPRACQL SVVDDKKFV SNITRLSSGP FRTITVRDTM SDLPEVRNGA SALEISYNGE PQSWFQRQLR GAQYQPILRD HICKDMSALV AARMRHIPLA PGSDWRDLPN IEVRLSDGTM ARKLRythHD RKNGRSSSGA LRGVCSCVEA GKACDPAARQ FNTLIPWCLP HTGNRHNNHWA GLYGRLEWDG FFSTTVTNPE PMGKQGRVLH PEQHRVSVSR ECARSQGFDP TYRLFGNILD KHRQVGNAVP PPLAKAIGLE IKLCMLAKAR ESASAKIKEE EAAKD
Source	Human
Residues	with 6* His-tag.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for DNMT1 recombinant protein	DNA (cytosine-5)-methyltransferases (DNMTs), such as DNMT1, maintain patterns of methylated cytosine residues in the mammalian genome. Genomic methylation patterns are reshaped during gametogenesis and early development and undergo programmed alterations during cellular differentiation. Methylation patterns are responsible for the repression of parasitic sequence elements and the expression status of genes subject to genomic imprinting and X inactivation. Faithful maintenance of methylation patterns is required for normal mammalian development, and aberrant methylation patterns are associated with certain human tumors and developmental abnormalities. A DNMT1 enzyme is thought to be responsible for most of the maintenance as well as the de novo methylation activities occurring in the somatic cells of vertebrates.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	195927037
NCBI GeneID	1786
NCBI Accession #	NP_001124295.1
NCBI GenBank Nucleotide #	NM_001130823.2
UniProt Accession #	P26358; Q9UHG5; Q9ULA2; Q9UMZ6; A0AV63; B7ZLW6
Molecular Weight	Predicted MW: 44 kDa Observed MW: 44 kDa
NCBI Official Full Name	DNA (cytosine-5)-methyltransferase 1 isoform a
NCBI Official Synonym Full Names	DNA methyltransferase 1
NCBI Official Symbol	DNMT1
NCBI Official Synonym Symbols	AIM; DNMT; MCMT; CXXC9; HSN1E; ADCADN; m.HsaI
NCBI Protein Information	DNA (cytosine-5)-methyltransferase 1
UniProt Protein Name	DNA (cytosine-5)-methyltransferase 1
UniProt Gene Name	DNMT1
UniProt Synonym Gene Names	AIM; CXXC9; DNMT; Dnmt1; DNA MTase HsaI; M.HsaI
UniProt Entry Name	DNMT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.