

DNMT1 recombinant protein

Recombinant DNMT1 protein

CATALOG #
AAA59661

HOST
Baculovirus

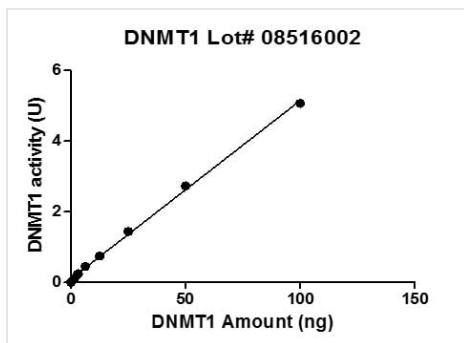
PRODUCT SYNONYMS

DNMT1; Recombinant DNMT1 protein; AIM; DNMT; MCMT; CXXC9; HSN1E; ADCADN; DNMT1 recombinant protein

PRODUCT SPECIFICATIONS

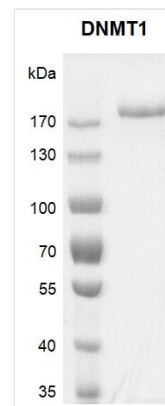
Host	Baculovirus
Purity/Purification	The recombinant protein is >90% pure by SDS-PAGE.
Form/Format	Recombinant DNMT1 protein is supplied at a concentration of 0.75ug/ul in 25mM HEPES-NaOH pH7.5, 500mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag, His-Tag
Notes	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. The substrate, AdoMet and DNMT1 were incubated for 1 hour at 37 degree C. The whole reactions were developed for 4 min.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



Application Data

Recombinant DNMT1 protein activity assay Assay was performed using DNMT Activity / Inhibition Assay,. The substrate, AdoMet and DNMT1 were incubated for 1 hour at 37 degree C. The whole reactions were developed for 4 min.



SDS-PAGE

Recombinant DNMT1 protein gel. Recombinant DNMT1 protein was run on an 8% SDS-PAGE gel and stained with Coomassie blue. MW: 188.2 kDa Purity: > 90%

ADDITIONAL INFORMATION

Related Product Information for DNMT1 recombinant protein	Short Description: Full-length recombinant DNMT1 protein (accession number NP_001370.1) was expressed in Sf9 cells and contains an N-terminal 6xHis-tag and DYKDDDDK-Tag with a molecular weight of 188.2 kDa. The recombinant protein is >90% pure by SDS-PAGE. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: 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.
Product Categories/Family for DNMT1 recombinant protein	Recombinant Proteins; DNA Methyltransferase (DNMT)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503351
NCBI GeneID	1786
NCBI Accession #	NP_001370.1
NCBI GenBank Nucleotide #	NM_001379.2
UniProt Accession #	P26358; Q9UHG5; Q9ULA2; Q9UMZ6; A0AV63; B7ZLW6
Molecular Weight	144,465 Da
NCBI Official Full Name	DNA (cytosine-5)-methyltransferase 1 isoform b
NCBI Official Synonym Full Names	DNA (cytosine-5-)-methyltransferase 1
NCBI Official Symbol	DNMT1
NCBI Official Synonym Symbols	AIM; DNMT; MCMT; CXXC9; HSN1E; ADCADN
NCBI Protein Information	DNA (cytosine-5)-methyltransferase 1; DNA (cytosine-5)-methyltransferase 1; m.HsaI; DNA MTase HsaI; DNA methyltransferase HsaI; CXXC-type zinc finger protein 9
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.

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Online datasheet: <https://stage.aaabiotech.com/dnmt1-recombinant-protein-baculovirus/59661>