

DNMT1 recombinant protein

Recombinant DNMT1 protein

CATALOG #
AAA59635

HOST
Baculovirus

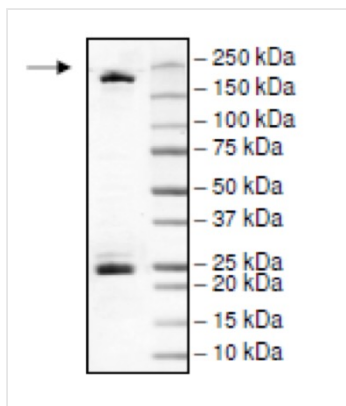
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

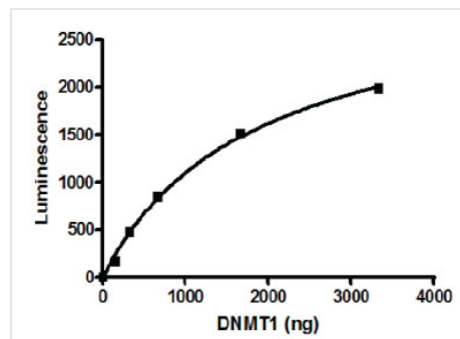
Host	Baculovirus
Form/Format	10ug recombinant DNMT1 protein supplied in 40mM Tris-HCl, pH8.0, 110mM NaCl, 2.2mM KCl, 0.04% Tween-20, and 20% glycerol.
Protein Species	Human
Tag	GST-Tag
Notes	Recombinant DNMT1 is suitable for use in DNA methylation assays. This protein is useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
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



SDS-PAGE

DNMT1 protein gel. DNMT1 (2.8 ug) run on a 4-20% SDS-PAGE gel and stained with Coomassie Blue. Arrow indicates recombinant DNMT1.



Application Data

DNMT1 activity assay. Recombinant DNMT1 activity was incubated with 400 uM S-adenosylmethionine (SAM) and DNA substrate, followed by detection with anti-5mC antibody and chemiluminescent detection.

ADDITIONAL INFORMATION

Related Product Information for DNMT1 recombinant protein	Short Description: Recombinant human DNMT1 was expressed in Sf9 cells via a baculovirus expression system as amino acids 2-1632 (accession number NM_001130823) with an N-terminal GST-Tag. The molecular weight of the protein is 211 kDa. DNMT1-DNA methyltransferase 1 (or DNMT 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. Recombinant DNMT1 can be used in DNA methylation assays to study enzyme kinetics and inhibitors. Background: DNMT1-DNA methyltransferase 1 (or DNMT 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 GenBank Nucleotide #	NM_001130823
Molecular Weight	Molecular weight of the protein is 211kDa

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/59635>