

DNMT3A recombinant protein

Recombinant DNMT3A protein

CATALOG #
AAA59662

HOST
Baculovirus

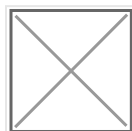
PRODUCT SYNONYMS

DNMT3A; Recombinant DNMT3A protein; TBRS; DNMT3A2; M.HsaIIIA; DNMT3A recombinant protein

PRODUCT SPECIFICATIONS

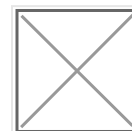
Host	Baculovirus
Purity/Purification	The recombinant protein is >95% pure by SDS-PAGE.
Form/Format	Recombinant DNMT3A protein is supplied in 25mM Tris pH8.0, 500mM NaCl, 5% Glycerol, 0.04% Triton X-100, 1mM DTT and 0.2mg/ml 3× peptide.
Source	Human
Tag	DYKDDDDK-Tag, His-Tag
Notes	Recombinant DNMT3A protein is suitable for use in enzyme kinetics, inhibitor screening, and selectivity profiling.
DNMT Activity Assay Conditions	DNMT Activity Assay Conditions: Assay was performed using DNMT Activity/Inhibition Assay, for 1 hour at 37 degree C.
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. Ships with Dry Ice.

IMAGES



Application Data

Recombinant DNMT3A protein activity assay Recombinant DNMT3A protein activity was measured using DNMT Activity / Inhibition Assay, for 1 hour at 37 degree C



SDS-PAGE

Recombinant DNMT3A protein gel. Recombinant DNMT3A protein was run on an 8% SDS-PAGE gel and stained with Coomassie blue.

ADDITIONAL INFORMATION

Related Product Information for DNMT3A recombinant protein

Background: (DNA (Cytosine-5-)-Methyltransferase 3) proteins such as DNMT3A (or DNMT 3A) 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. DNMT3A has been shown to be important in the regulation of specific patterns of DNA methylation. 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 control of gene expression. DNA methylation is generally associated with transcriptional repression.

Three families of DNMTs have been identified: DNMT1, DNMT2 and DNMT3. The DNMT3 family, containing two active methyltransferases, DNMT3A & DNMT3B, and one DNMT3-Like protein (DNMT3L), establishes the initial CpG methylation pattern de novo and shows the same propensity for methylating unmethylated duplex DNA as for hemi-methylated DNA. DNMT3A and DNMT3B are encoded by two distinct genes and are strongly expressed in embryonic stem cells. DNMT3A is ubiquitous in mammalian cells

Product Categories/Family for DNMT3A recombinant protein

Recombinant Proteins; DNA Methyltransferase (DNMT)

NCBI AND UNIPROT INFORMATION

NCBI GI #	28559069
NCBI GeneID	1788
NCBI Accession #	NP_783328.1; NP_715640.2
NCBI GenBank Nucleotide #	NM_175629.2
UniProt Accession #	Q9Y6K1; Q86TE8; Q86XF5; Q8IZV0; Q8WXU9; E9PEB8
Molecular Weight	101858 Da
NCBI Official Full Name	DNA (cytosine-5)-methyltransferase 3A isoform a
NCBI Official Synonym Full Names	DNA (cytosine-5)-methyltransferase 3 alpha
NCBI Official Symbol	DNMT3A
NCBI Official Synonym Symbols	TBRS; DNMT3A2; M.HsaIIIA
NCBI Protein Information	DNA (cytosine-5)-methyltransferase 3A
UniProt Protein Name	DNA (cytosine-5)-methyltransferase 3A
UniProt Gene Name	DNMT3A
UniProt Synonym Gene Names	Dnmt3a; DNA MTase HsaIIIA; M.HsaIIIA
UniProt Entry Name	DNM3A_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/dnmt3a-recombinant-protein-baculovirus/59662>