DNMT3L recombinant protein

DNMT3L, Active

CATALOG #	HOST	APPLICATIONS
AAA72979	**Sf9 insect cells using baculovirus**	**Methyltransferase Assay**

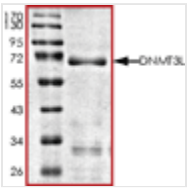
PRODUCT SYNONYMS

DNMT3L; Active; DNMT3L recombinant protein

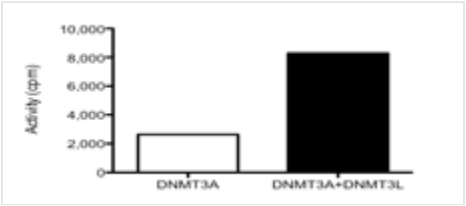
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Positions	Full Length
Sequence Length	1388
Applicable Applications for DNMT3L recombinant protein	Methyltransferase Assay
Species	Human
Tag	GST tag
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	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for DNMT3L recombinant protein	Description: Recombinant full-length human DNMT3L was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: DNMT3L is an enzymatically inactive regulatory factor that shares sequence homology with the DNA methylatransferase DNMT3A and DNMT3B. DNMT3L is involved in the establishment of DNA methylation patterns during gametogenesis. In mammals, DNA methylation is used for heritable silencing of retrotransposons and imprinted genes and for inactivation of the X chromosome in females (1). DNMT3L has a genomewide role in CpG island methylation beyond genomic imprinting (2). DNMT3L functions as a regulators of methylation at imprinted loci rather than a DNA cytosine methyltransferase because of a lack of catalytic motifs in its sequence.
Product Categories/Family for DNMT3L recombinant protein	Enzymes; Active Methyltransferases

References	1. Ooi, S.K.T. et al: DNMT3L connects unmethylated lysine 4 of histone H3 to de novo methylation of DNA. Nature 448: 714-717, 2007. 2. Smallwood, S. A. et al: Dynamic CpG island methylation landscape in oocytes and preimplantation embryos. Nature Genet. 43: 811-814, 2011.

NCBI AND UNIPROT INFORMATION

NCBI GI #	33876867
NCBI GeneID	29947
Molecular Weight	~70 kDa
NCBI Official Full Name	Homo sapiens DNA (cytosine-5-)-methyltransferase 3-like, mRNA
NCBI Official Synonym Full Names	DNA methyltransferase 3 like
NCBI Official Symbol	DNMT3L
NCBI Protein Information	DNA (cytosine-5)-methyltransferase 3-like
UniProt Protein Name	DNA (cytosine-5)-methyltransferase 3-like
UniProt Gene Name	**DNMT3L**

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/dnmt3l-recombinant-protein-sf9-insect-cells-using-baculovirus-methyltransferase-assay/72979