

Recombinant Human DNMT3A, His-tagged

Cat. No. DNMT3A-26885TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 269-546 (278 amino acids) of Human Dnmt3a (Isoform b) with N terminal His tag; MWt 32kDa.
Species	Human
Source	E.coli
ProteinLength	269-546 a.a.
Description	CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a DNA methyltransferase that is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes to the cytoplasm and nucleus and its expression is developmentally regulated. Alternative splicing results in multiple transcript variants encoding different isoforms.
Conjugation	HIS
Tissue specificity	Highly expressed in fetal tissues, skeletal muscle, heart, peripheral blood mononuclear cells, kidney, and at lower levels in placenta, brain, liver, colon, spleen, small intestine and lung.
Form	Lyophilised:Reconstitute with 136 µl aqua dest.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	RKSTAEKPKVKEIIDERTRERLVYEVQRQKCRNIEDICISC GSLNVTLEHPLFVGGMCCQ NCKNCFLECAQYDDDDGYQS YCTICCGGREVLNCGNNNCCRCFCVECDLLVGP GAAQ AAIKEDPWNCYMCYHKGTYGLLRREDWPSRLQMFFAN NHDQEFDPKPV YPPVPAEKRPKPIRVLSLFDGIATGLLVK DLGIQVDRIASEVCEDESITVGMVRHQGKI MYVGDVRS VTQKHIQEWGPFDLVIGGSPCNDLSIVNPARKGLYEGT GRLFFEFY
Sequence Similarities	Belongs to the C5-methyltransferase family.Contains 1 ADD domain.Contains 1 GATA-type zinc finger.Contains 1 PHD-type zinc finger.Contains 1 PWWP domain.

GENE INFORMATION

Gene Name	DNMT3A DNA (cytosine-5-)-methyltransferase 3 alpha [Homo sapiens]
Official Symbol	DNMT3A
Synonyms	DNMT3A; DNA (cytosine-5-)-methyltransferase 3 alpha; DNA (cytosine-5)-methyltransferase 3A;
Gene ID	1788
mRNA Refseq	NM_022552
Protein Refseq	NP_072046
MIM	602769

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Uniprot ID	Q9Y6K1
Chromosome Location	2p23
Pathway	Cysteine and methionine metabolism, organism-specific biosystem; Cysteine and methionine metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Methionine degradation, organism-specific biosystem; Methionine degradation, conserved biosystem;
Function	DNA (cytosine-5-)-methyltransferase activity; DNA (cytosine-5-)-methyltransferase activity, acting on CpG substrates; DNA binding; chromatin binding; metal ion binding;

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