

## Active Recombinant Human DNMT3A/DNMT3L Complex, His/GST-tagged

Cat. No. DNMT3A/DNMT3L-0293H    Lot. No. (See product label)


### SPECIFICATION

<b>Product Overview</b>	Recombinant Human DNMT3A(a.a 623-912) fused with His tag at N terminal and DNMT3L(a.a. 160-387) fused with GST tag at N terminal complex was co-expressed in a baculovirus-infected Sf9 cell expression system.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Protein Length</b>	623-912;160-387 a.a.
<b>Form</b>	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 3 mM DTT, 16 mM glutathione and 20% glycerol.
<b>Bio-activity</b>	≥0.58 pmol/min/μg.
<b>Molecular Mass</b>	DNMT3A: 34 kDa; DNMT3L: 52 kDa
<b>Purity</b>	> 95%
<b>Applications</b>	Useful for the study of DNA methylation, screening inhibitors, and selectivity profiling.
<b>Storage</b>	>6 months at -80 centigrade. Avoid freeze/thaw cycles.

### GENE INFORMATION

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<b>Gene Name</b>	DNMT3A DNA (cytosine-5-)-methyltransferase 3 alpha [ Homo sapiens ]
<b>Official Symbol</b>	DNMT3A
<b>Synonyms</b>	DNMT3A; DNA (cytosine-5-)-methyltransferase 3 alpha; DNA (cytosine-5)-methyltransferase 3A; DNA MTase HsallIA; DNA cytosine methyltransferase 3A2; DNMT3A2; M.HsallIA;
<b>Gene ID</b>	1788
<b>mRNA Refseq</b>	NM_175629
<b>Protein Refseq</b>	NP_783328
<b>MIM</b>	602769
<b>UniProt ID</b>	Q9Y6K1
<b>Chromosome Location</b>	2p23
<b>Pathway</b>	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; One Carbon Metabolism, organism-specific biosystem; Validated targets of C-MYC transcriptional repression, organism-specific biosystem;
<b>Function</b>	DNA (cytosine-5-)-methyltransferase activity; DNA (cytosine-5-)-methyltransferase activity, acting on CpG substrates; DNA binding; chromatin binding; metal ion binding; methyltransferase activity; protein binding; transferase activity; unmethylated CpG

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