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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Insect Cells
ProteinLength	623-912;160-387 a.a.
Form	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 3 mM DTT, 16 mM glutathione and 20% glycerol.
Bio-activity	≥0.58 pmol/min/μg.
Molecular Mass	DNMT3A: 34 kDa; DNMT3L: 52 kDa
Purity	> 95%
Applications	Useful for the study of DNA methylation, screening inhibitors, and selectivity profiling.
Storage	>6 months at –80 centigrade. Avoid freeze/thaw cycles.

GENE INFORMATION

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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; DNA MTase HsaIIIA; DNA cytosine methyltransferase 3A2; DNMT3A2; M.HsaIIIA;
Gene ID	1788
mRNA Refseq	NM_175629
Protein Refseq	NP_783328
MIM	602769
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; One Carbon Metabolism, organism-specific biosystem; Validated targets of C-MYC transcriptional repression, organism-specific biosystem;
Function	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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