

Recombinant Human DNMT3A protein, GST-tagged

Cat. No. DNMT3A-73H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human DNMT3A protein, fused with N-terminal GST tag, was expressed in insect cell. |
| Species | Human |
| Source | Insect Cells |
| ProteinLength | 2-912 |
| Description | DNA (cytosine-5)-methyltransferase 3a (DNMT3a) is required for de novo DNA methylation and methylates at both CpG and non-CpG sites. |
| Form | 50 mM Tris/HCl pH 8.0, 125 mM NaCl, 3 mM DTT, 10% glycerol (v/v). |
| Molecular Mass | 127.7 kDa |
| Purity | >80% by SDS-PAGE |
| Storage | Store at -80°C. Thaw quickly and store on ice before use. Avoid repeated freezing and thawing cycles. |

GENE INFORMATION

Gene Name DNMT3A DNA (cytosine-5-)-methyltransferase 3 alpha [Homo sapiens]

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| Official Symbol | DNMT3A |
| Synonyms | DNMT3A; DNA (cytosine-5-)-methyltransferase 3 alpha; DNA (cytosine-5)-methyltransferase 3A; DNA MTase HsallIA; DNA cytosine methyltransferase 3A2; DNMT3A2; M.HsallIA; |
| Gene ID | 1788 |
| mRNA Refseq | NM_022552 |
| Protein Refseq | NP_072046 |
| 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, conserv |
| 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 bi |

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