

## Recombinant Human DNMT1 protein, GST-tagged

Cat. No. DNMT1-72H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human DNMT1 protein, fused with N-terminal GST tag, was expressed in insect cell.                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                        |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 2-1632                                                                                                                                                                                       |
| <b>Description</b>      | DNA (cytosine-5)-methyltransferase 1 (DNMT1) methylates CpG residues, preferentially methylating hemimethylated DNA to maintain the methylation pattern in the new strand of replicated DNA. |
| <b>Form</b>             | 20 mM Tris/HCl pH 7.5, 120 mM NaCl, 1 mM TCEP, 10% glycerol (v/v).                                                                                                                           |
| <b>Molecular Mass</b>   | 209.0 kDa                                                                                                                                                                                    |
| <b>Purity</b>           | >85% by SDS-PAGE                                                                                                                                                                             |
| <b>Storage</b>          | Store at -80°C. Thaw quickly and store on ice before use. Avoid repeated freezing and thawing cycles.                                                                                        |

### GENE INFORMATION

|                  |                                                             |
|------------------|-------------------------------------------------------------|
| <b>Gene Name</b> | DNMT1 DNA (cytosine-5)-methyltransferase 1 [ Homo sapiens ] |
|------------------|-------------------------------------------------------------|

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b>     | <b>DNMT1</b>                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>            | DNMT1; DNA (cytosine-5-)-methyltransferase 1; DNMT; DNA (cytosine-5)-methyltransferase 1; CXXC9; MCMT; m.Hsal; DNA MTase Hsal; CXXC finger protein 9; DNA methyltransferase 1; DNA methyltransferase Hsal; CXXC-type zinc finger protein 9; AIM; HSN1E; FLJ16293; MGC104992; |
| <b>Gene ID</b>             | <b>1786</b>                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>         | <b>NM_001130823</b>                                                                                                                                                                                                                                                          |
| <b>Protein Refseq</b>      | <b>NP_001124295</b>                                                                                                                                                                                                                                                          |
| <b>MIM</b>                 | <b>126375</b>                                                                                                                                                                                                                                                                |
| <b>UniProt ID</b>          | <b>P26358</b>                                                                                                                                                                                                                                                                |
| <b>Chromosome Location</b> | 19p13.2                                                                                                                                                                                                                                                                      |
| <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, conserv              |
| <b>Function</b>            | DNA (cytosine-5-)-methyltransferase activity; DNA binding; DNA-methyltransferase activity; metal ion binding; protein binding; transcription factor binding; transferase activity; zinc ion binding;                                                                         |