

Recombinant Human DNMT1 protein, His & T7-tagged

Cat. No. DNMT1-1645H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human DNMT1 aa. (Val1343~Leu1570 (Accession # P26358)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Val1343~Leu1570
Description	This gene encodes an enzyme that transfers methyl groups to cytosine nucleotides of genomic DNA. This protein is the major enzyme responsible for maintaining methylation patterns following DNA replication and shows a preference for hemi-methylated DNA. Methylation of DNA is an important component of mammalian epigenetic gene regulation. Aberrant methylation patterns are found in human tumors and associated with developmental abnormalities. Variation in this gene has been associated with cerebellar ataxia, deafness, and narcolepsy, and neuropathy, hereditary sensory, type IE. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 29.6kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	9.7

GENE INFORMATION

Gene Name	DNMT1 DNA methyltransferase 1 [Homo sapiens (human)]
Official Symbol	DNMT1
Synonyms	DNMT1; DNA methyltransferase 1; AIM; DNMT; MCMT; CXXC9; HSN1E; ADCADN; m.HsaI; DNA (cytosine-5)-methyltransferase 1; CXXC-type zinc finger protein 9; DNA (cytosine-5-)-methyltransferase 1; DNA MTase HsaI; DNA methyltransferase HsaI
Gene ID	1786
mRNA Refseq	NM_001130823.2
Protein Refseq	NP_001124295.1

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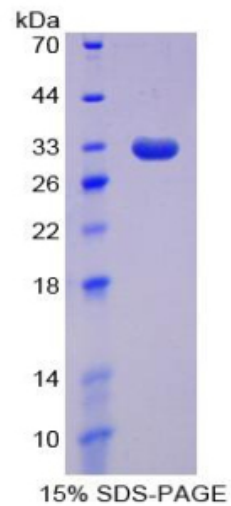
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UniProt ID

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SDS-PAGE

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