

RP01995LQ

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# Recombinant Human DNMT1(304-1616) Protein

Catalog No.: RP01995LQ **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	1786	P26358-2

### Tags

### Synonyms

DNMT1; AIM; CXXC9; DNMT;DNA (cytosine-5)-methyltransferase 1; Dnmt1; EC:2.1.1.37; CXXC-type zinc finger protein 9; DNA methyltransferase HsaI; DNA MTase HsaI; M.HsaI; MCMT

## Product Information

Source	Purification
	≥ 95 % as determined by SDS-PAGE.

### Endotoxin

< 0.01 EU/μg of the protein by LAL method

### Formulation

### Reconstitution

## Background

DNMT1 (DNA (Cytosine-5-)-Methyltransferase 1) proteins are involved in DNA methylation in which a methyl group is added to a cytosine residue on DNA, commonly at the C5 position of a CpG dinucleotide. Three families of DNMTs have been identified: DNMT1, DNMT2, and DNMT3 (comprised of DNMT3A and DNMT3B).Methylates CpG residues. Preferentially methylates hemimethylated DNA. Associates with DNA replication sites in S phase maintaining the methylation pattern in the newly synthesized strand, that is essential for epigenetic inheritance. Associates with chromatin during G2 and M phases to maintain DNA methylation independently of replication. It is responsible for maintaining methylation patterns established in development. DNA methylation is coordinated with methylation of histones. Mediates transcriptional repression by direct binding to HDAC2. In association with DNMT3B and via the recruitment of CTCFL/BORIS, involved in activation of BAG1 gene expression by modulating dimethylation of promoter histone H3 at H3K4 and H3K9.

## Basic Information

### Description

Recombinant Human DNMT1(304-1616) Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Pro304-Asp1616) of Human DNMT1 (Accession #NP\_001124295.1)

### Bio-Activity

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

### Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

## Contact

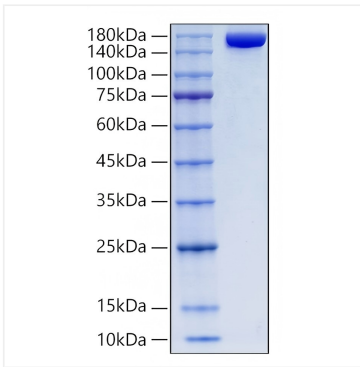


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## Validation Data

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Recombinant Human  
DNMT1(304-1616) Protein was  
determined by SDS-PAGE under  
reducing conditions with Coomassie  
Blue.