

# Human DNMT1 Knockdown Cell Lysate

Cat. No. DNMT1-339HKCL Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	WB-validated DNMT1 Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	<p>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.</p>
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	183 kDa
<b>Notes</b>	<p>Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.</p>
<b>Storage</b>	Store at -20 centigrade for two years.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Concentration</b>	Lot-specific
<b>Shipping</b>	Blue Ice
<b>Components</b>	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg DNMT1 KD HeLa cell lysate
<b>Protein Families</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways</b>	Cysteine and methionine metabolism, Metabolic pathways
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	DNMT1 DNA (cytosine-5-)-methyltransferase 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	DNMT1
<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>	1786
<b>mRNA Refseq</b>	NM_001130823
<b>Protein Refseq</b>	NP_001124295
<b>MIM</b>	126375

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