

Recombinant Human DNMT3L

Cat. No. DNMT3L-26950TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to aa 288-387 of human Dnmt3L with a proprietary tag; 36.63kDa inclusive of tag;
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a nuclear protein with similarity to DNA methyltransferases. This protein is not thought to function as a DNA methyltransferase as it does not contain the amino acid residues necessary for methyltransferase activity. However, this protein does stimulate de novo methylation by DNA cytosine methyltransferase 3 alpha and it is thought to be required for the establishment of maternal genomic imprints. This protein also mediates transcriptional repression through interaction with histone deacetylase 1. Alternative splicing results in two transcript variants. An additional splice variant has been described but its biological validity has not been determined.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Expressed at low levels in several tissues including testis, ovary, and thymus.

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Biological activity	This product is useful for Antibody Production and Protein Array
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% GlutathioneNote: Glutathione is reduced.
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	LVLNKEDLDVASRFLEMEPTIPDVHGGSLQNAVRVWSNIPAIRSSRHVALVSEEEEL SLLAQNKQSSKLAAKWPTKLVKNCFLPLREYFKYFSTELTSSL
Sequence Similarities	Belongs to the C5-methyltransferase family.Contains 1 ADD-type zinc finger.

GENE INFORMATION

Gene Name	DNMT3L DNA (cytosine-5-)-methyltransferase 3-like [Homo sapiens]
Official Symbol	DNMT3L
Synonyms	DNMT3L; DNA (cytosine-5-)-methyltransferase 3-like; DNA (cytosine-5)-methyltransferase 3-like; cytosine 5 methyltransferase 3 like protein; human cytosine 5 methyltransferase 3 like protein; MGC1090;
Gene ID	29947
mRNA Refseq	NM_013369

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Protein Refseq	NP_037501
MIM	606588
Uniprot ID	Q9UJW3
Chromosome Location	21q22.3
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, conserved biosystem;
Function	enzyme activator activity; enzyme binding; metal ion binding; protein binding;

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