

Recombinant Human DNMT3L, His-tagged

Cat. No. DNMT3L-141H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DNMT3L, 1-387aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-387aa
Description	CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. DNMT3L is a nuclear protein with similarity to DNA methyltransferases, but is not thought to function as a DNA methyltransferase as it does not contain the amino acid residues necessary for methyltransferase activity. However, it does stimulate de novo methylation by DNA cytosine methyltransferase 3 alpha and is thought to be required for the establishment of maternal genomic imprints. It also mediates transcriptional repression through interaction with histone deacetylase 1. Recombinant human DNMT3L protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	46.2kDa (411aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSEFMAAIP ALDPEAEPSM DVILVGSSEL

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SSSVSPGTGR DLIAYEVKAN QRNIEDICIC CGSLQVHTQH PLFEGGICAP
 CKDKFLDALF LYDDDDGYQSY CSICCSGETL LICGNPDCTR CYCFECVDSL
 VGPGTSGKVH AMSNWVCYLC LPSSRSGLLQ RRRKWRSQK AFYDRESENP
 LEMFETVPVW RRQPVRVLSL FEDIKKELTS LGFLESGSDP GQLKHVVDVT
 DTVRKDVVEW GPFDLVYGAT PPLGHTCDRP PSWYLFQFHR LLQYARPKPG
 SPRPFFWMFV DNLVLNKEDL DVASRFLEME PVTIPDVHGG SLQNAVRVWS
 NIPAIRSRHW ALVSEEELSL LAQNKQSSKL AAKWPTKLVK NCFLPLREYF
 KYFSTELTSS L

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

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; cytosine-5-methyltransferase 3-like protein; human cytosine-5-methyltransferase 3-like protein;

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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