Recombinant Full Length Human DNMT3L Protein, C-Flag-tagged

Cat. No. DNMT3L-1897HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DNMT3L Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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, 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. This protein also mediates transcriptional repression through interaction with histone deacetylase 1. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	43.4 kDa
AA Sequence	MAAIPALDPEAEPSMDVILVGSSELSSSVSPGTGRDLIAYEVKANQRNIEDICICCGSL QVHTQHPLFEG GICAPCKDKFLDALFLYDDDGYQSYCSICCSGETLLICGNPDCTRC

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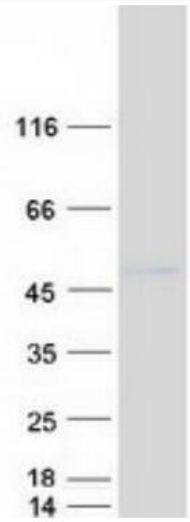
	YCFECVDSLVGPGTSGKVHAMSNW VCYLCLPSSRSGLLQRRRKWRSQLKAFYDR ESENPLEMFETVPVWRRQPVRVLSLFEDIKKELTSLGFLE SGSDPGQLKHVVDVTD TVRKDVEEWGPFDLVYGATPPLGHTCDRPPSWYLFQFHRLLQYARPKPGSPGPF F WMFVDNLVLNKEDLDVASRFLEMEPVTIPDVHGGSLQNAVRVWSNIPAIRSRHWAL VSEEELSLLAQNK QSSKLAAKWPTKLVKNCFLPLREYFKYFSTELTSSL TRTRPLEQ KLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transcription Factors
Protein Pathways	Cysteine and methionine metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

Gene Name	DNMT3L DNA methyltransferase 3 like [Homo sapiens (human)]
Official Symbol	DNMT3L

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Synonyms	MGC1090
Gene ID	29947
mRNA Refseq	NM_175867.3
Protein Refseq	NP_787063.1
MIM	606588
UniProt ID	Q9UJW3



Coomassie blue staining of purified DNMT3L protein.

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