

Recombinant Full Length Human DNMT3L Protein, GST-tagged

Cat. No. DNMT3L-4053HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DNMT3L full-length ORF (AAH02560.1, 1 a.a. - 386 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	386 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, 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. [provided by RefSeq, Jul 2012]
Molecular Mass	69.9 kDa
AA Sequence	MAAIPALDPEAEPSMDVILVGSSSELSSSVSPGTGRDLIAYEVKANQRNIEDICICCGSLQVHTQHPLFEGGICAPCKDKFLDALFLYDDDGYSYCSICCSGETLLICGNPDCTRC

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YCFECVDSL VGPGTSGKVHAMS NWVCYLCLPSSRSGLLQRRRKWRSQ LKAFYDRE
 SENPLEMFETVPVWRRQPVRVLSLFEDIKKELTSLGFLESGSDPGQLKHVVDTDTV
 RKDVEEWGPFDLVYGATPPLGHTCDRPPSWYLFQFHRLLQYARPKPGSPGPFFW
 MFVDNLVLNKEDLDVASRFLEMEPVTIPDVHGGSLQNAVRVWSNIPAIRSRHWALVS
 EEELSLLAQNKQSSKLA AKWPTKLVKNCFLPLREYFKYFSTELTSSL

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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

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