

Product datasheet for **TP319008L**

DNMT3L (NM_175867) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human DNA (cytosine-5-)-methyltransferase 3-like (DNMT3L), transcript variant 2, 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC219008 protein sequence
Red=Cloning site **Green**=Tags(s)

MAAIPALDPEAEPSMDVILVGSSSELSSSVSPGTGRDLIAYEVKANQRNIEDICICCGSLQVHTQHPLFEG
GICAPCKDKFLDALFLYDDDDGYQSYCSICCSGETLLICGNPDCTRCYCFECVDSL VGPGTSGKVHAMS
VCYLCLPSSRSGLLQRRRKWRSQKAFYDRESENPLEMFETVPVWRRQPVRVLSLFEDIKKELTSLGFLE
SGSDPGQLKHVVDVTDTVRKDVEEWGPFDLVYGATPPLGHTCDRPPSWYLFQFHRLQYARPKPGSPGPF
FWMFVDNLVLNKEDLDVASRFLEMEPVTIPDVHGGSLQNAVRVWSNIPAIRSRHWALVSEEELSLAQNK
QSSKLAAKWPTKLVKNCFLPLREYFKYFSTELTSSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 43.4 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_787063](#)



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Locus ID: 29947
UniProt ID: [Q9UJW3](#)
RefSeq Size: 1720
Cytogenetics: 21q22.3
RefSeq ORF: 1158

Summary: 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]

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Cysteine and methionine metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified DNMT3L protein (Cat# [TP319008]). The protein was produced from HEK293T cells transfected with DNMT3L cDNA clone (Cat# [RC219008]) using MegaTran 2.0 (Cat# [TT210002]).