

Product datasheet for PH319008

DNMT3L (NM_175867) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DNMT3L MS Standard C13 and N15-labeled recombinant protein (NP_787063)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219008
Predicted MW:	43.5 kDa
Protein Sequence:	>RC219008 protein sequence Red=Cloning site Green=Tags(s)

MAAIPALDPEAEPSMDVILVGSSELSSSVSPGTGRDLIAYEVKANQRNIEDICICCGSLQVHTQHPLFEG
GICAPCKDKFLDALFLYDDDGYSYCSICCSGETLLICGNPDCTRCYCFECVDSL VGPGTSGKVHAMS
VCYLCLPSSRGLLQRRRKWRSQKAFYDRESENPLEMFETVPVWRRQPVRVLSLFEDIKKELTSLGFLE
SGSDPGQLKHVVDTDTVRKDVEEWGPFDLVYGATPPLGHTCDRPPSWYLFQFHRLLYARPKPGSPGPF
FWMFVDNLVLNKEDLDVASRFLMEPVTIPDVHGGSLQNAVRVWSNIPAIRSRHWALVSEELSLLAQNK
QSSKLAAKWPTKLVKNCFLPLREYFKYFSTELTSSL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_787063</u>
RefSeq Size:	1720
RefSeq ORF:	1158
Locus ID:	29947
UniProt ID:	<u>Q9UJW3</u>



[View online »](#)

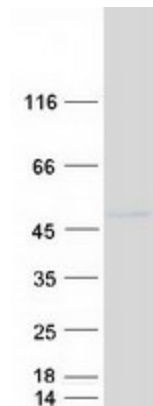
Cytogenetics: 21q22.3

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]).