

## Product datasheet for PH326414

### DNMT1 (NM\_001130823) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	DNMT1 MS Standard C13 and N15-labeled recombinant protein (NP_001124295)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC226414
Predicted MW:	184.6 kDa
Protein Sequence:	>RC226414 representing NM_001130823 Red=Cloning site Green=Tags(s)

MPARTAPARVPTLAVPAISLPDDVRRRLKDLERDSLTEKECVKEKLNLLHEFLQTEIKNQLCDLETKLRK  
EELSEEGYLAKVKSLLNKDLSENGAHAYNREVNGRLENGNQARSEARRVGMADANSPPKPLSKPRTPRR  
SKSDGEAKRSRDPASASQVTGIRAEPSPRITRSTRQTTITSHFAKGPAPKRPQEESERAKSDESIEK  
EEDKDQDEKRRRVTSRERVARPLPAEPPERAKSGTRTEKEEERDEKEEKRLRSQTKEPTPKQKLEKEPDR  
EARAGVQADEDEDGDEKDEKHSRQPKDLAAKRRPEEKEPEKVNQIISDEKDEDEKEEKRRKTPKEPTE  
KKMARAKVMNSKTHPPKCIQCGQYLDLDPDLKYQHPPDAVDEPQMLTNEKLSIFDANESGFESYEALPQ  
HKLTCFSVYCKHGHLCPIIDTGLIEKNIELFFSGSAKPIYDDPSLEGGVNGKNLGPINEWITGFDGGEK  
ALIGFSTFAEYILMDPSPEYAPIFGLMQEKIYISKIVVEFLQSNDSSTYEDLINKIETTVPSSGLNLNR  
FTEDSLLRHAQFVVEQVESYDEAGDSDEQPIFLTPCMRDILKLAGVTLGQRRARQARRQTIIRHSTREKDRG  
PTKATTTKLVYQIFDFFAEQIEKDDREDKENAFKRRRCVCEVCQQPECGKCKACKDMVKFGGSGRSKQ  
ACQERRCPNMAMKEADDDEEVDNIPEMPSPKMHQGGKKKQKNRISWVGEAVKTDGKKSYYKVCIDA  
ETLEVGDCVSVIPDDSSKPLYLARVTALWEDSSNGQMFHAHWFCAGTDTVLGATSDPLELFLVDECEMDQ  
LSYIHSKVKVIYKAPSENWAMEGGMDPELLEGGDDGKTYFYQLWYDQDYARFESPPKTQPTEDNKFKFCV  
SCARLAEMRQKEIPRVLEQLEDLDSRVLYYSATKNGILYRVGDGVYLPPEAFTFNIKLSPPVKRPRKEPV  
DEDLYPEHYRKYSYIKGSNLDAPEPYRIGRIKEIFCPKKSNGRPNETDIKIRVNFYRPENTHKSTPAS  
YHADINLLYWSDEEAVVDFKAVQGRCTVEYGEDLPECVQVYSMGGPNRFYFLEAYNAKSKSFEDPPNHAR  
SPGNKGGKGGKGGKPKSQACEPEPEIEIKLPLRRTLDFVSGCGGLSEGFHQAGISDTLWAIEMWDPAA  
QAFRLNPGSTVFTEDCNILLKLVIMAGETTNSRQRLPQKGDVEMLCGGPPCQGFSGMNRFSRSTYSKFK  
NSLVVSFLSYCDYYRPRFFLLENVRNFVSKRSMVLKLTLRCLVRMGYQCTFGVLQAGQYVAQTRRRAI  
ILAAAPGEKLPFPPEPLHVFAPRACQLSVVDDKKFVSNITRLLSSGPFRTITVRDMSDLPEVRNGASAL  
EISYNGEPQSWFQRQLRGAQYQPILRDHICKDMSALVAARMRHIPLAPGSDWRDLNPIEVRSDGTMARK  
LRYTHDRKNGRSSGALRGVCSCVEAGKACDPAARQFNTLIPWCLPHTGNRHNHWAGLYGRLEWDGFFS  
TTVTNPEPMGKQGRVLHPEQHRVSVRECARSQGFPTDYRLFNGILDKHRQVGNVPPPLAKAIGLEIKL  
CMLAKARESASAKIKEEEAAKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_001124295</a>
RefSeq ORF:	4896
Synonyms:	ADCADN; AIM; CXXC9; DNMT; HSN1E; m.Hsal; MCMT
Locus ID:	1786
UniProt ID:	<a href="#">P26358</a> , <a href="#">I6L9H2</a>
Cytogenetics:	19p13.2
Summary:	This gene encodes an enzyme that transfers methyl groups to cytosine nucleotides of genomic DNA. This protein is the major enzyme responsible for maintaining methylation patterns following DNA replication and shows a preference for hemi-methylated DNA. Methylation of DNA is an important component of mammalian epigenetic gene regulation. Aberrant methylation patterns are found in human tumors and associated with developmental abnormalities. Variation in this gene has been associated with cerebellar ataxia, deafness, and narcolepsy, and neuropathy, hereditary sensory, type IE. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Cysteine and methionine metabolism, Metabolic pathways

### Product images:



Coomassie blue staining of purified DNMT1 protein (Cat# [TP326414]). The protein was produced from HEK293T cells transfected with DNMT1 cDNA clone (Cat# [RC226414]) using MegaTran 2.0 (Cat# [TT210002]).