

Datasheet for ABIN7553689
DNMT1 Protein (AA 1-1616) (His tag)



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Overview

Quantity:	1 mg
Target:	DNMT1
Protein Characteristics:	AA 1-1616
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DNMT1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat DNMT1 Protein expressed in mammalien cells.
Sequence:	MPARTAPARV PTLAVPAISL PDDVRRRLKD LERDSLTEKE CVKEKLNLLH EFLQTEIKNQ LCDLETKLRK EELSEEGYLA KVKSLLNKDL SLENGAHAYN REVNGRELENG NQARSEARRV GMADANSPPK PLSKPRTPRR SKSDGEAKPE PSPSPRITRK STRQTTITSH FAKGPAKRKP QEESERAKSD ESIKEEDKDQ DEKRRRVTSR ERVARPLPAE EPERAKSGTR TEKEEERDEK EEKRLRSQTK EPTPKQKLKE EPDREARAGV QADEDEDGDE KDEKKHRSQP KDAAKRRPE EKEPEKVN PQ ISDEKDEDEK EEKRRKTTPK EPTEKKMARA KTMNSKTHP PKCIQCGQYL DDPDLKYGQH PPDAVDEPQM LTNEKLSIFD ANESGFESYE ALPQHKLTCF SVYCKHGHLC PIDTGLIEKN IELFFSGSAK PIYDDDP SLE GGVNGKNLGP INEWWITGFD GGEKALIGFS TSFAEYILMD PSPEYAPIFG LMQEKIYISK IVVEFLQSNS DSTYEDLINK IETTVPPSGL NLNRFTEDSL LRHAQFVVEQ VESYDEAGDS DEQPIFLTPC MRDLIKLAGV TLGQRRAR RQTIRHSTRE KDRGPTKATT TKLVYQIFDT FFAEQIEKDD REDKENAFKR RRCGVCEVCQ

QPECGKCKAC KDMVKFGGSG RSKQACQERR CPNMAMKEAD DDEEVDDNIP EMPSPKKMHQ
GKKKKQNKNR ISWVGEAVKT DGKKSYYKKV CIDAETLEVG DCVSVIPDDS SKPLYLARVT
ALWEDSSNGQ MFHAHWFCAG TDTVLGATSD PLELFLVDEC EDMQLSYIHS KVKVIYKAPS
ENWAMEGGMD PESLLEGDDG KTYFYQLWYD QDYARFESPP KTQPTEDNKF KFCVSCARLA
EMRQKEIPRV LEQLEDLSR VLYYSATKNG ILYRVGDGVY LPPEAFTFNI KLSSPVKRPR
KEPVDEDLYP EHYRKYSYDI KGSNLDAPEP YRIGRIKEIF CPKKSNGRPN ETDIKIRVNK
FYRPENTHKS TPASYHADIN LLYWSDEEAV VDFKAVQGRC TVEYGEDLPE CVQVYSMGGP
NRFYFLEAYN AKSKSFEDPP NHARSPGNKG KGKGGKGGKGP KSQACEPSEP EIEIKLPKLR
TLDVFSGCCG LSEGFHQAGI SDTLWAIEMW DPAAQAFRLN NPGSTVFTED CNILLKLVMA
GETTNSRGQR LPQKGDVEML CGGPPCQGFS GMNRFNSRTY SKFKNSLVVS FLSYCDYYRP
RFFLLENVRN FVSFKRSMVL KLTLRCLVRM GYQCTFGVLQ AGQYGVAQTR RRAIILAAAP
GEKLPFPPEP LHVAFAPRACQ LSVVVDKKF VSNITRLSSG PFRTITVRDT MSDLPEVRNG
ASALEISYNG EPQSWFQRQL RGAQYQPILR DHICKDMSAL VAARMRHIPL APGSDWRDLP
NIEVRLSDGT MARKLRYTHH DRKNGRSSSG ALRGVCSCVE AGKACDPAAR QFNTLIPWCL
PHTGNRHNHW AGLYGRLEWD GFFSTTVTNP EPMGKQGRVL HPEQHRVSV RECARSQGFP
DTYRLFNGIL DKHRQVGNV PPPLAKAIGL EIKLCMLAKA RESASAKIKE EEAAKD **Sequence
without tag. The proposed Purification-Tag is based on experiences with the expression
system, a different complexity of the protein could make another tag necessary. In case you
have a special request, please contact us.**

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Product Details

Grade: custom-made

Target Details

Target: DNMT1

Alternative Name: DNMT1 ([DNMT1 Products](#))

Background: DNA (cytosine-5)-methyltransferase 1 (Dnmt1) (EC 2.1.1.37) (CXXC-type zinc finger protein 9) (DNA methyltransferase Hsa1) (DNA MTase Hsa1) (M.Hsa1) (MCMT),FUNCTION: Methylates CpG residues. Preferentially methylates hemimethylated DNA. Associates with DNA replication sites in S phase maintaining the methylation pattern in the newly synthesized strand, that is essential for epigenetic inheritance. Associates with chromatin during G2 and M phases to maintain DNA methylation independently of replication. It is responsible for maintaining methylation patterns established in development. DNA methylation is coordinated with methylation of histones. Mediates transcriptional repression by direct binding to HDAC2. In association with DNMT3B and via the recruitment of CTCFL/BORIS, involved in activation of BAG1 gene expression by modulating dimethylation of promoter histone H3 at H3K4 and H3K9. Probably forms a corepressor complex required for activated KRAS-mediated promoter hypermethylation and transcriptional silencing of tumor suppressor genes (TSGs) or other tumor-related genes in colorectal cancer (CRC) cells (PubMed:24623306). Also required to maintain a transcriptionally repressive state of genes in undifferentiated embryonic stem cells (ESCs) (PubMed:24623306). Associates at promoter regions of tumor suppressor genes (TSGs) leading to their gene silencing (PubMed:24623306). Promotes tumor growth (PubMed:24623306). {ECO:0000269|PubMed:16357870, ECO:0000269|PubMed:18413740, ECO:0000269|PubMed:18754681, ECO:0000269|PubMed:24623306}.

Molecular Weight: 183.2 kDa

UniProt: [P26358](#)

Pathways: [SARS-CoV-2 Protein Interactome](#), [The Global Phosphorylation Landscape of SARS-CoV-2 Infection](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months