

Datasheet for ABIN7562865
DNMT1 Protein (AA 1-1620) (His tag)



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Overview

Quantity:	1 mg
Target:	DNMT1
Protein Characteristics:	AA 1-1620
Origin:	Mouse
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 mammalian cells.
Sequence:	MPARTAPARV PALASPAGSL PDHVRRRLKD LERDGLTEKE CVREKLNLLH EFLQTEIKSQ LCDLETKLHK EELSEEGYLA KVKSLLNKDL SLENGHTLT QKANGCPANG SRPTWRAEMA DSNRSPRSRP KPRGPRRSKS DSDTLSVETS PSSVATRRRT RQTITAHFT KGPTKRKPKE ESEEGNSAES AAERDQDKK RRVVDTESGA AAVEKLEEV TAGTQLGPEE PCEQEDDNRS LRRHTRELSL RRKSKEDPDR EARPETHLDE DEDGKKDKRS SRPRSQRDP AAKRRPKEAE PEQVAPETPE DRDEDEREEK RRKTTRKKLE SHTVPVQSRS ERKAAQSKSV IPKINSPKCP ECGQHLD DPN LKYQQHPEDA VDEPQMLTSE KLSIYDSTST WFDTYEDSPM HRFTSFSVYC SRGHLCPVDT GLIEKNVELY FSGCAKAIHD ENPSMEGGIN GKNLGPINQW WLSGFDGGEK VLIGFSTAF A EYILMEPSKE YEPIFGLMQE KIIYISKIVVE FLQNNPDAVY EDLINKIETT VPPSTINVNR FTEDSLRHA QFVVSQVESY DEAKDDETP IFLSPCMRAL IHLAGVSLGQ RRATRVMGA TKEKDKAPTK ATTTKLVYQI FDTFFSEQIE KYDKEDKENA MKRRRCGVCE VCQQPECGKC

KACKDMVKFG GTGRSKQACL KRRCPNLAVK EADDDEEADD DVSEMPSPKK LHQGKKKKQN
KDRISWLGQP MKIEENRTYY QKVSIDEEML EVGDCVSVIP DDSSKPLYLA RVTALWEDKN
GQMMFHAHWF CAGTDTVLGA TSDPLELFLV GECENMQLSY IHSKVKVIYK APSENWAMEG
GTDPETTLPG AEDGKTYFFQ LWYNQEYARF ESPPKTQPTD DNKHKFCLSC IRLAELRQKE
MPKVLEQIEE VDGRVYCSSI TKNGVVYRLG DSVYLPPEAF TFNIKVASPV KRPKKDPVNE
TLYPEHYRKY SDYIKGSNLD APEPYRIGRI KEIHCGKKKKGVNEADIKLR LYKFYRPENT
HRSYNGSYHT DINMLYWSDE EAVVNFSDVQ GRCTVEYGED LLESIQDYSQ GGPDRFYFLE
AYNSKTKNFE DPPNHARSPG NKGKGGKGGK GKGKHQVSEP KEPEAAIKLP KLRTLDFVSG
CGGLSEGFHQ AGISETLWAI EMWDPAQAQAF RLNNPGTTVF TEDCNVLLKL VMAGEVTNSL
GQRLPQKGDV EMLCGGPPCQ GFSGMNRFNSTRTYSKFKNSL VVFSLSYCDY YRPRFFLLEN
VRNFVSYRRS MVLKTLRCL VRMGYQCTFG VLQAGQYGVA QTRRRAILA AAPGEKLPLF
PEPLHVFAPR ACQLSVVDD KKFVSNITRL SSGPFRTITV RDTMSDLPEI QNGASNSEIP
YNGEPLSWFQ RQLRGSHYQP ILRDHICKDM SPLVAARMRH IPLFPGSDWR DLPNIQVRLG
DGVIAHKLQY TFHDVKNYGS STGALRGVCS CAEGKACDPE SRQFSTLIPW CLPHTGNRHN
HWAGLYGRLE WDGFFSTTVT NPEPMGKQGR VLHPEQHRVV SVRECARSQG FPDSYRFFGN
ILDRHRQVGN AVPPPLAKAI GLEIKLCLLS SARESASAAV KAKEEAATKD **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) (Met-1) (EC 2.1.1.37) (DNA methyltransferase Mmul) (DNA MTase Mmul) (M.Mmul) (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 (By similarity). Also required to maintain a transcriptionally repressive state of genes in undifferentiated embryonic stem cells (ESCs) (By similarity). Associates at promoter regions of tumor suppressor genes (TSGs) leading to their gene silencing (By similarity). Promotes tumor growth (By similarity).
{ECO:0000250|UniProtKB:P26358, ECO:0000269|PubMed:11290321, ECO:0000269|PubMed:15550930, ECO:0000269|PubMed:17576694}.

Molecular Weight: 183.2 kDa

UniProt: [P13864](#)

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