

Datasheet for ABIN7562615
DNMT3A Protein (AA 1-908) (His tag)



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Overview

Quantity:	1 mg
Target:	DNMT3A
Protein Characteristics:	AA 1-908
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DNMT3A protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Dnmt3a Protein expressed in mammalian cells.
Sequence:	MPSSGPGDTS SSSLEREDDR KEGEEQEENR GKEERQEPSA TARKVGRPGR KRKHPPVESS DTPKDAVTT KSQPMAQDSG PSDLLPNGDL EKRSEQPPEE GSPAAGQKGG APAEGEGTET PPEASRAVEN GCCVTKEGRG ASAGEGKEQK QTNIESMKME GSRGRLRGGL GWESSLRQRP MPRLTFQAGD PYYISKRKRKRD EWLARWKREA EKKAKVIAVM NAVEENQASG ESQKVVEEASP PAVQQPTDPA SPTVATTPEP VGGDAGDKNA TKAADDEPEY EDGRGFGIGE LVWGLKLRGFS WWPGRIVSWW MTGRSRAAEG TRWVMWFGDG KFSVVCVEKL MPLSSFCSAF HQATYNKQPM YRKAIYEV LQ VASSRAGKLF PACHDSDESD SGKAVEVQNK QMIEWALGGF QPSGPKGLEP PEEEKNPYKE VYTDMWVEPE AAAYAPPPPA KKPRKSTTEK PKVKEIDER TRERLVYEVR QKCRNIEDIC ISCGSLNVTLEHPLFIGGMC QNCKNCFLEC AYQYDDDG YQ SYCTICCGGR EVL MCGN NNC CRCFCVECV D LLVGP GAAQA AIKEDPWNCY MCGHKGT YGL LRRREDWPSR LQMFFANNHD QEFDPPKVYP PVPAEKRKPI RVL SLFDGIA TGLLV LKDLG IQVDRIASE VCEDSITVGM VRHQGKIMYV GDVRSVTQKH IQEWGPFDLV IGGSPCNDLS IVNPARKGLY

Product Details

EGTGRLFFEF YRLLHDARPK EGDDRPFFWL FENVVAMGVS DKRDISRFLE SNPVMIDAKE
VSAHRARYF WGNLPGMNRP LASTVNDKLE LQECLEHGRI AKFSKVRTIT TRSNSIKQGK
DQHFPVMNE KEDILWCTEM ERVFGFPVHY TDVSNMSRLA RQRLGRSWS VPVIRHLFAP
LKEYFACV **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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: DNMT3A

Alternative Name: Dnmt3a ([DNMT3A Products](#))

Background: DNA (cytosine-5)-methyltransferase 3A (Dnmt3a) (EC 2.1.1.37) (Cysteine methyltransferase DNMT3A) (EC 2.1.1.-) (DNA methyltransferase MmullIA) (DNA MTase MmullIA) (M.MmullIA),FUNCTION: Required for genome-wide de novo methylation and is essential for the establishment of DNA methylation patterns during development (PubMed:9662389, PubMed:11399089, PubMed:10555141, PubMed:11919202, PubMed:16567415,

Target Details

PubMed:17713477). DNA methylation is coordinated with methylation of histones (PubMed:9662389, PubMed:11399089, PubMed:10555141, PubMed:11919202, PubMed:16567415, PubMed:17713477). It modifies DNA in a non-processive manner and also methylates non-CpG sites (PubMed:9662389, PubMed:11399089, PubMed:10555141, PubMed:11919202, PubMed:16567415, PubMed:17713477). May preferentially methylate DNA linker between 2 nucleosomal cores and is inhibited by histone H1 (PubMed:18823905). Plays a role in paternal and maternal imprinting (PubMed:15215868). Required for methylation of most imprinted loci in germ cells (PubMed:15215868). Acts as a transcriptional corepressor for ZBTB18 (PubMed:11350943). Recruited to trimethylated 'Lys-36' of histone H3 (H3K36me3) sites (PubMed:20547484). Can actively repress transcription through the recruitment of HDAC activity (PubMed:11350943). Also has weak auto-methylation activity on Cys-706 in absence of DNA (PubMed:21481189). {ECO:0000269|PubMed:10555141, ECO:0000269|PubMed:11350943, ECO:0000269|PubMed:11399089, ECO:0000269|PubMed:11919202, ECO:0000269|PubMed:15215868, ECO:0000269|PubMed:16567415, ECO:0000269|PubMed:17713477, ECO:0000269|PubMed:18823905, ECO:0000269|PubMed:20547484, ECO:0000269|PubMed:21481189, ECO:0000269|PubMed:9662389}.

Molecular Weight:	101.7 kDa
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UniProt:	O88508
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Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
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Restrictions:	For Research Use only
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Handling

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