

Datasheet for ABIN7560680 DNMT3L Protein (AA 1-421) (His tag)



o to Product page

Overview

Quantity:	1 mg
Target:	DNMT3L (TRDMT1)
Protein Characteristics:	AA 1-421
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DNMT3L protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Dnmt3l Protein expressed in mammalian cells.
Sequence:	MGSRETPSSC SKTLETLDLE TSDSSSPDAD SPLEEQWLKS SPALKEDSVD VVLEDCKEPL
	SPSSPPTGRE MIRYEVKVNR RSIEDICLCC GTLQVYTRHP LFEGGLCAPC KDKFLESLFL
	YDDDGHQSYC TICCSGGTLF ICESPDCTRC YCFECVDILV GPGTSERINA MACWVCFLCL
	PFSRSGLLQR RKRWRHQLKA FHDQEGAGPM EIYKTVSAWK RQPVRVLSLF RNIDKVLKSL
	GFLESGSGSG GGTLKYVEDV TNVVRRDVEK WGPFDLVYGS TQPLGSSCDR CPGWYMFQFH
	RILQYALPRQ ESQRPFFWIF MDNLLLTEDD QETTTRFLQT EAVTLQDVRG RDYQNAMRVW
	SNIPGLKSKH APLTPKEEEY LQAQVRSRSK LDAPKVDLLV KNCLLPLREY FKYFSQNSLP L
	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.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN7560680 | 03/29/2025 | Copyright antibodies-online. All rights reserved.

Product Details	
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:	DNMT3L (TRDMT1)
Alternative Name:	Dnmt3l (TRDMT1 Products)
Background:	DNA (cytosine-5)-methyltransferase 3-like,FUNCTION: Catalytically inactive regulatory factor of DNA methyltransferases that can either promote or inhibit DNA methylation depending on the context (PubMed:11719692, PubMed:15318244, PubMed:15671018, PubMed:24074865). Essential for the function of DNMT3A and DNMT3B: activates DNMT3A and DNMT3B by binding to their catalytic domain (PubMed:15671018). Acts by accelerating the binding of DNA and S-adenosyl-L-methionine (AdoMet) to the methyltransferases and dissociates from the complex after DNA binding to the methyltransferases (PubMed:15671018). Recognizes unmethylated histone H3 lysine 4 (H3K4me0) and induces de novo DNA methylation by recruitment or activation of DNMT3 (By similarity). Plays a key role in embryonic stem cells and germ cells (PubMed:11719692, PubMed:15318244, PubMed:24074865). In germ cells, required for the methylation of imprinted loci together with DNMT3A (PubMed:11719692). In male germ cells, specifically required to methylate retrotransposons, preventing their mobilization
	(PubMed:15318244). Plays a key role in embryonic stem cells (ESCs) by acting both as an

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN7560680 | 03/29/2025 | Copyright antibodies-online. All rights reserved.

	positive and negative regulator of DNA methylation (PubMed:24074865). While it promotes
	DNA methylation of housekeeping genes together with DNMT3A and DNMT3B, it also acts as
	an inhibitor of DNA methylation at the promoter of bivalent genes (PubMed:24074865).
	Interacts with the EZH2 component of the PRC2/EED-EZH2 complex, preventing interaction of
	DNMT3A and DNMT3B with the PRC2/EED-EZH2 complex, leading to maintain low methylation
	levels at the promoters of bivalent genes (PubMed:24074865). Promotes differentiation of
	ESCs into primordial germ cells by inhibiting DNA methylation at the promoter of RHOX5,
	thereby activating its expression (PubMed:24074865). {ECO:0000250 UniProtKB:Q9UJW3,
	ECO:0000269 PubMed:11719692, ECO:0000269 PubMed:15318244,
	ECO:0000269 PubMed:15671018, ECO:0000269 PubMed:24074865}.
Molecular Weight:	48.0 kDa
UniProt:	Q9CWR8
Application Details	
Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for
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.
Application Notes: Restrictions:	
	functional studies yet we cannot offer a guarantee though.
Restrictions:	functional studies yet we cannot offer a guarantee though.
Restrictions: Handling	functional studies yet we cannot offer a guarantee though. For Research Use only
Restrictions: Handling Format:	functional studies yet we cannot offer a guarantee though. For Research Use only Liquid
Restrictions: Handling Format: Buffer:	functional studies yet we cannot offer a guarantee though. For Research Use only Liquid The buffer composition is at the discretion of the manufacturer.
Restrictions: Handling Format: Buffer: Handling Advice:	functional studies yet we cannot offer a guarantee though. For Research Use only Liquid The buffer composition is at the discretion of the manufacturer. Avoid repeated freeze-thaw cycles.