

Datasheet for ABIN7564854

## PRMT7 Protein (AA 1-692) (His tag)



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### Overview

Quantity:	1 mg
Target:	PRMT7
Protein Characteristics:	AA 1-692
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRMT7 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat Prmt7 Protein expressed in mammalian cells.
Sequence:	<p>MKVFCGRANP TTGSLEWLEE DEHYDYHQEI ARSSYADMLH DKDRNIKYYQ GIRAAVSRVK</p> <p>DRGQKALVLD IGTGTGLLSM MAVTAGADFC YAIEVFKPMA EAAVKIVERN GFSDKIKVIN</p> <p>KHSTEVTVGP DGDLP CRANI LITELFDTTEL IGEALPSYE HAHKHLVQED CEAVPHRATV</p> <p>YAQLVESRRM WSWNKLFPVR VRTSLGEQVI VPPSELERCP GAPSVCDIQL NQVSPADFTV</p> <p>LSDVLP MFSV DFSKQVSSA ACHSRQFVPL ASGQAQVLS WWDIEMDPEG KIKCTMAPFW</p> <p>AQTDPQELQW RDHWMQCVYF LPQEEPVVQG SPRCLVAHHD DYCVMWYSLQR TSPDENDSAY</p> <p>QVRPVCDCQA HLLWNRPRFG EINDQDRTDH YAQALRTVLL PGSVCLCVSD GSLLSMLAHH</p> <p>LGAEQVFTVE SSVASYRLMK RIFKVNHLKD KISVINKRPE LLTAADLEGK KVSLLLGEFP</p> <p>FTTSLLPWHN LYFWYVRTSV DQHLAPGAVV MPQAASLHAV IVEFRDLWRI RSPCGDCEGF</p> <p>DVHIMDDMIK HSLDFRESRE AEPHPLWEYP CRSLSKPQEI LTFDFQQPIP QQPMQSKGTM</p> <p>ELTRPGKSHG AVLWMEYQLT PDSTISTGLI NPAEDKGDCC WNPCHKQAVY FLSTTLDLRV</p>

PLNGPRSVSY VVEFHPLTGD ITMEFRLADT LS **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:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	PRMT7
Alternative Name:	Prmt7 ( <a href="#">PRMT7 Products</a> )
Background:	<p>Protein arginine N-methyltransferase 7 (EC 2.1.1.321) (Histone-arginine N-methyltransferase PRMT7) ([Myelin basic protein]-arginine N-methyltransferase PRMT7),FUNCTION: Arginine methyltransferase that can both catalyze the formation of omega-N monomethylarginine (MMA) and symmetrical dimethylarginine (sDMA), with a preference for the formation of MMA. Specifically mediates the symmetrical dimethylation of arginine residues in the small nuclear ribonucleoproteins Sm D1 (SNRPD1) and Sm D3 (SNRPD3), such methylation being required for the assembly and biogenesis of snRNP core particles. Specifically mediates the symmetric dimethylation of histone H4 'Arg-3' to form H4R3me2s. Plays a role in gene imprinting by being recruited by CTCFL at the H19 imprinted control region (ICR) and methylating histone H4 to</p>

## Target Details

form H4R3me2s, possibly leading to recruit DNA methyltransferases at these sites. May also play a role in embryonic stem cell (ESC) pluripotency. Also able to mediate the arginine methylation of histone H2A and myelin basic protein (MBP) in vitro, the relevance of such results is however unclear in vivo (By similarity). {ECO:0000250, ECO:0000269|PubMed:17048991}.

Molecular Weight: 78.3 kDa

UniProt: [Q922X9](#)

Pathways: [Ribonucleoprotein Complex Subunit Organization](#)

## 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