Datasheet for ABIN7552185

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

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Overview

Quantity:	1 mg
Target:	PRMT7
Protein Characteristics:	AA 1-692
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRMT7 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant PRMT7 Protein expressed in mammalian cells.
Sequence:	MKIFCSRANP TTGSVEWLEE DEHYDYHQEI ARSSYADMLH DKDRNVKYYQ GIRAAVSRVK DRGQKALVLD IGTGTGLLSM MAVTAGADFC YAIEVFKPMA DAAVKIVEKN GFSDKIKVIN KHSTEVTVGP EGDMPCRANI LVTELFDTEL IGEGALPSYE HAHRHLVEEN CEAVPHRATV YAQLVESGRM WSWNKLFPIH VQTSLGEQVI VPPVDVESCP GAPSVCDIQL NQVSPADFTV LSDVLPMFSI DFSKQVSSSA ACHSRRFEPL TSGRAQVVLS WWDIEMDPEG KIKCTMAPFW AHSDPEEMQW RDHWMQCVYF LPQEEPVVQG SALYLVAHHD DYCVWYSLQR TSPEKNERVR QMRPVCDCQA HLLWNRPRFG EINDQDRTDR YVQALRTVLK PDSVCLCVSD GSLLSVLAHH LGVEQVFTVE SSAASHKLLR KIFKANHLED KINIIEKRPE LLTNEDLQGR KVSLLLGEPF FTTSLLPWHN LYFWYVRTAV DQHLGPGAMV MPQAASLHAV VVEFRDLWRI RSPCGDCEGF DVHIMDDMIK RALDFRESRE AEPHPLWEYP CRSLSEPWQI LTFDFQQPVP LQPLCAEGTV ELRRPGQSHA AVLWMEYHLT PECTLSTGLL EPADPEGGCC WNPHCKQAVY FFSPAPDPRA LLGGPRTVSY AVEFHPDTGD IIMEFRHADT PD **Sequence without tag. The proposed**

Product Details

	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:	PRMT7
Alternative Name:	PRMT7 (PRMT7 Products)
Background:	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

Target Details

	recruited by CTCFL at the H19 imprinted control region (ICR) and methylating histone H4 to 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. {ECO:0000269|PubMed:15044439, ECO:0000269|PubMed:15494416, ECO:0000269|PubMed:17709427, ECO:0000269|PubMed:19110445}.
Molecular Weight:	78.5 kDa
UniProt:	Q9NVM4
Pathways:	Ribonucleoprotein Complex Subunit Organization

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.
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