

## Product datasheet for **AR09075PU-N**

### PRMT1 (Isoform 2) (1-353, His-MBP-tag) Mouse Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	PRMT1 (Isoform 2) (1-353, His-MBP-tag) mouse recombinant protein, 0.1 mg
<b>Species:</b>	Mouse
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	<u>MHHHHHMKI EEGKLIWIN GDKGYNGLAE VGKKFEKDTG IKVTVEHPDK LEEKFPOVAA</u> <u>TGDGPDIIFW AHDRFGGYAQ SGLLAEITPD KAFQDKLYPF TWDAVRYNGK LIAYPIAVEA</u> <u>LSLIYNKDLL PNPPKTWEEI PALDKELKAK GKSALMFNLQ EPYFTWPLIA ADGGYAFKYE</u> <u>NGKYDIKDVG VDNAGAKAGL TFLVDLIK NK HMNADTDYSI AEA AFNKGET AMTINGPWAW</u> <u>SNIDTSKVNY GVTVLPTFKG QPSKPFVGV L SAGINAASPN KELAKEFLEN YLLTDEGLEA</u> <u>VNKDKPLGAV ALKSYEEELA KDPRIATME NAQKGEIMPN IPQMSAFWYA VRTAVINAAS</u> <u>GRQTVDEALK DAQTNSSSNN NNNNNNNNLG IEGRGSHMAA AEA NCIMEV SCGQAESSEK</u> <u>PNAEDMTSKD YYFDSYAHFG IHEEMLKDEV RLTLYRNSMF HNRHLFKDKV VLDVSGGTGI</u> <u>LCMFAAKAGA RKVIGIECSS ISDYAVKIVK ANKLDHVVTI IKGKVEEVEL PVEKVDIIS EWMGYCLFYE</u> <u>SMLNTVLHAR DKWLAPDGLI FPD RATLYVT AIEDRQYKDY KIHWWENVY G FDMSCIKDVA</u> <u>IKEPLVDVVD PKQLVTNACL IKEVDIYTVK VEDLTFTSPF CLQV KRNDYV HALVAYFNIE FTRCHKRTGF</u> <u>STSPESPYTH WKQTVFYMED YLTVKTGEEI FG TIGMRPNA KNNRDLDF TI DLDFK GQLCE</u> <u>LSCSTDYRMR</u>
<b>Tag:</b>	His-MBP-tag
<b>Concentration:</b>	lot specific
<b>Purity:</b>	≥90 pure by SDS-PAGE
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: 40 mM Tris-HCl pH 8.0 containing, 2 mM DTT, 100 mM NaCl, 4 mM MgCl <sub>2</sub> , 40% glycerol
<b>Bioactivity:</b>	Specific: Specific activity is > 30 nmol/min/mg, and is defined as the amount of enzyme that transfer 1.0 nmole of methyl group per minute at 37°C.
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	Recombinant mouse PRMT1, fused to His-MBP tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.



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<b>Storage:</b>	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_001239405</a>
<b>Locus ID:</b>	15469
<b>UniProt ID:</b>	<a href="#">Q9JIF0</a>
<b>Cytogenetics:</b>	7 29.07 cM
<b>Synonyms:</b>	HMT2, HRMT1L2, IR1B4
<b>Summary:</b>	<p>Arginine methyltransferase that methylates (mono and asymmetric dimethylation) the guanidino nitrogens of arginyl residues present in proteins such as ESR1, histone H2, H3 and H4, ILF3, HNRNPA1, HNRNPD, NFATC2IP, SUPT5H, TAF15, EWS, HABP4 and SERBP1 (PubMed:15327772, PubMed:19858291). Constitutes the main enzyme that mediates monomethylation and asymmetric dimethylation of histone H4 'Arg-4' (H4R3me1 and H4R3me2a, respectively), a specific tag for epigenetic transcriptional activation (By similarity). Methylates H4R3 in genes involved in glioblastomagenesis in a CHTOP- and/or TET1-dependent manner (By similarity). May be involved in the regulation of TAF15 transcriptional activity, act as an activator of estrogen receptor (ER)-mediated transactivation, play a key role in neurite outgrowth and act as a negative regulator of megakaryocytic differentiation, by modulating p38 MAPK pathway (By similarity). Methylates RBM15, promoting ubiquitination and degradation of RBM15 (By similarity). Methylates CHTOP and this methylation is critical for its 5-hydroxymethylcytosine (5hmC)-binding activity (PubMed:19858291). [UniProtKB/Swiss-Prot Function]</p>

## Product images:

