

## Product datasheet for TP510073

### Prmt7 (NM\_145404) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse protein arginine N-methyltransferase 7 (Prmt7), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR210073 protein sequence <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)  MKVFCGRANPTTGSLEWLEEDHYDYHQEIARSSYADMLHDKDRNIKYYQGIRAAVSRVKDRGQKALVLD IGTGTGLLSMMAVTAGADFCYAIEVFKPMAEAAVKIVERNGFSDKIKVINKHSTEVTVGPDGDLPCRANI LITELFDTLIGEGALPSYEHAKHLVQEDCEAVPHRATVYAQLVESRRMWSWNKLPVVRVRTLGEQVI VPPSELERCPGAPSVCDIQLNQVSPADFTVLSVDLPMFSVDFSKQVSSSAACHSRQFVPLASGQAQVVL WWDIEMDPEGKIKCTMAPFWAQTDPQELQWRDHWMQCVYFLPQEEPVVGSGPRCLVAHHDDYCVWY SLQR TSPDENDSAYQVRPVCDCQAHLLWNRPRFGEINDQDRTDHYAQUALRTVLLPGSVCLCVSDGSLLSMLAH H LGAEQVFTVESSVASYRLMKRIFKVNHLEDKISVINKRPELLTAADLEGKKVSLLLGEPFFTTSLLPWHN LYFWYVRTSDQHLAPGAVVMPQAASLHAVIVEFRDLWRIRSPCGDCEGFDVHIMDDMIKHS�DFRESRE AEPHPLWEYPCRSLSKPQEILTFDFQQPIQQPMQSKGTMELTRPGKSHGAVLWMEYQLTPDSTISTGLI NPAEDKGDCWNPHCKQAVYFLSTTLDLRVPLNGPRSVSYVVEFHPLTGDITMEFRLADTLS  <span style="color: red;">TR</span> TRPLE <span style="color: green;">QKLISEEDLAANDILDYKDDDDKV</span>
Tag:	C-MYC/DDK
Predicted MW:	78.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.


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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_663379</a>
<b>Locus ID:</b>	214572
<b>UniProt ID:</b>	<a href="#">Q922X9</a>
<b>RefSeq Size:</b>	2269
<b>Cytogenetics:</b>	8 D3
<b>RefSeq ORF:</b>	2076
<b>Synonyms:</b>	4933402B05Rik; BC006705
<b>Summary:</b>	<p>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 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). [UniProtKB/Swiss-Prot Function]</p>