

Recombinant Mouse Protein Arginine N-methyltransferase 1, His-MBP-tagged

Cat. No. Prmt1-1762M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse PRMT1, fused to His-MBP tag at N-terminus, was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques.
Species	Mouse
Source	Mouse
Description	Protein arginine N-methyltransferase 1 (PRMT1) is a type I methyltransferase that transfers a methyl group from S-adenosylmethionine to guanidino nitrogens of arginine residues to form monomethylarginine and asymmetric dimethylarginine. Functions of type I arginine methylation in proteins may include regulation of transcription, modulation of the affinity of nucleic acid-binding proteins, regulation of interferon signaling pathways, and targeting of nuclear proteins. Mouse PRMT1 shares 99.9% sequence identity with the human proteins.
Concentration	1 mg/ml
Form	Supplied as a liquid in 40 mM Tris, pH 8.0, containing 100 mM NaCl, 4 mM MgCl ₂ , 2 mM DTT, and 40% glycerol.
Purity	> 90% pure by SDS-PAGE
Sequence	11-353 amino acids: MHHHHHMKI EEGKLVWIN GDKGYNGLAE VGKKFEKDTG IKVTV EHPDK LEEKFPQVAA TGDGPDIIFWAHDFGGYQAQ SGLLAEITPD

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KAFQDKLYPF TWDAVRYNGK LIAYPIAVEA LSLIYNKDLL
 PNPPKTWEEIPALDKELKAK GKSALMFNLQ EPYFTWPLIA ADGGYAFKYE
 NGKYDIKDVG VDNAGAKAGL TFLVDLIKNKHMNAD

Molecular Mass 84 kDa (750 aa)

Applications SDS-PAGE

Storage Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

Official Symbol Prmt1

GENE INFORMATION

Gene Name [Prmt1 protein arginine N-methyltransferase 1 \[Mus musculus \]](#)

Synonyms Prmt1; protein arginine N-methyltransferase 1; Mrmt1; Hrmt1l2; AW214366; 6720434D09Rik; OTTMUSP00000022387; OTTMUSP00000022390; OTTMUSP00000022391; OTTMUSP00000022392; arginine N-methyltransferase 1; histone-arginine N-methyltransferase PRMT1; heterogeneous nuclear ribonucleoprotein methyltransferase-like 2; EC 2.1.1.125

Gene ID [15469](#)

mRNA Refseq [NM_019830](#)

Protein Refseq [NP_062804](#)

UniProt ID [Q9JIF0](#)

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Chromosome Location	7 B4; 7 23.1 cM
Pathway	Androgen Receptor Signaling Pathway; Tryptophan metabolism; mRNA processing
Function	protein binding; methyltransferase activity; histone-arginine N-methyltransferase activity; histone methyltransferase activity (H4-R3 specific); histone methyltransferase activity; enzyme binding; core promoter proximal region DNA binding; [cytochrome c]-arginine N-methyltransferase activity; N-methyltransferase activity; protein methyltransferase activity; protein-arginine omega-N asymmetric methyltransferase activity; snoRNP binding; transferase activity

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