

# Recombinant mouse PRMT1 protein

Catalog Number: PRM0801

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-353aa

**UniProt No.**

Q9JIF0

**NCBI Accession No.**

NP\_001239405.1

**Alternative Names**

Protein arginine N-methyltransferase 1 isoform 2, Histone-arginine N-methyltransferase PRMT1, Heterogeneous nuclear ribonucleoproteins methyltransferase-like 2, Hrmt1l2, Mrmt1

## PRODUCT SPECIFICATION

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**Molecular Weight**

84 kDa (750aa)

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 40mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 4mM MgCl<sub>2</sub>, 2mM DTT, 40% glycerol

**Purity**

> 90% by SDS-PAGE

**Biological Activity**

Specific activity is > 30nmol/min/mg, and is defined as the amount of enzyme that transfer 1.0nmole of methyl group per minute at 37C.

**Tag**

His-MBP-Tag

**Application**

SDS-PAGE, Enzyme Activity

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**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

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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 (AAF37293) shares 99. 9% sequence identity with the human proteins (NP\_938074). Recombinant mouse PRMT1, fused to His-MBP tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

MHHHHHHMKI EEGKLVIWIN GDKGYNGLAE VGKKFEKDTG IKVTVEHPDK LEEKFPQVAA TGDGPDIIFW AHDRFGGYAQ SGLLAEITPD KAFQDKLYPF TWDAVRYNGK LIAYPIAVEA LSLIYNKDLL PNPPKTWEEI PALDKEALKAK GKSALMFNLQ EPYFTWPLIA ADGGYAFKYE NGKYDIKDVG VDNAGAKAGL TFLVDLIKKNK HMNADTDYSI AEEAFNKGET AMTINGPWAH SNIDTSKVNY GVTVLPTFKG QPSKPFVGVL SAGINAASPN KELAKEFLEN YLLTDEGLEA VNKDKPLGAV ALKSYEEELA KDPRIAATME NAQKGEIMPN IPQMSAFWYA VRTAVINAAS GRQTVDEALK DAQTNSSNN NNNNNNNNLG IEGRGSHMAA AEAANCIMEV SCGQAESSEK PNAEDMTSKD YYFDSDYAHFG IHEEMLKDEV RTLTYRNSMF HNRHLFKDKV VLDVGSGTGI LCMFAAKAGA RKVIGIECSS ISDYAVKIVK ANKLDHVVTI IKGKVEEVEL PVEKVDIIS EWMGYCLFYE SMLNTVLHAR DKWLAPDGLI FPDRATLYVT AIEDRQYKDY KIHWWENVYG FDMSCIKDVA IKEPLVDVVD PKQLVTNACL IKEVDIYTVK VEDLTFTSPF CLQVKRNDYV HALVAYFNIE FTRCHKRTGF STSPESPYTH WKQTVFYMED YLTVKTGEEI FGTIGMRPNA KNNRDLDFTI DLDKGQLCE LSCSTDYRMR

## General References

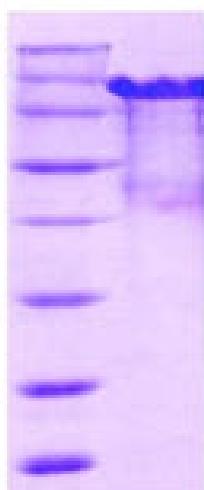
- Herrmann F., et al. (2005). J Biol Chem. 280(45):38005-10.  
 Abramovich C., et al. (1997). EMBO J. 16(2):260-6.

## DATA

### SDS-PAGE

(kDa)

150  
100  
70  
50  
35  
25  
20  
15



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)