

# Recombinant human PRMT1 protein

Catalog Number: PRM0802

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-353aa

### UniProt No.

Q99873

### NCBI Accession No.

NP\_938074.2

### Alternative Names

Protein arginine N-methyltransferase 1 isoform 3, HRMT1L2, HMT1 hnRNP methyltransferase-like 2 (S. cerevisiae), HCP1, ANM1, Histone-arginine N-methyltransferase PRMT1, Interferon receptor 1-bound protein 4, IR1B4, ANM1, highly conserved protein 1

## PRODUCT SPECIFICATION

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### Molecular Weight

84.2 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 > 10 nmol/min/mg, and is defined as the amount of enzyme that transfer 1.0 nmole of methyl group on histone H4 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

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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. Recombinant human PRMT1, fused to His-MBP tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

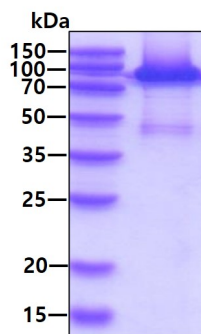
<MHHHHHMKI EEGKLIWIN GDKGYNGLAE VGKKFEKDTG IKVTVEHPDK LEEKFPQVAA TGDGPDIIFW AHDRFGGYAQ SGLLAEITPD KAFQDKLYPF TWDVRYNGK LIAYPIAVEA LSLIYNKDLL PNPPKTWEEI PALDKELKAK GKSALMFNLQ EPYFTWPLIA ADGGYAFKYE NGKYDIKDVG VDNAGAKAGL TFLVDLIK NK HMNADTDYSI AEA AFNKGET AMTINGPWAW SNIDTSKVNY GVTVLPTFKG QPSKPFVGV L SAGINAASPN KELAKEFLEN YLLTDEGLEA VNKDKPLGAV ALKSYEEELA KDPRIAATME NAQKGEIMPN IPQMSAFWYA VRTAVINAAS GRQTVDEALK DAQTNSSSNN NNNNNNNNLG IEGRGSH>MAA AEAANCIMEV SCGQAESSEK PNAEDMTSKD YYFDSYAHFG IHEEMLKDEV RTLTYRNSMF HNRHLFKDKV VLDVGS GTGI LCMFAAKAGA RKVIGIECSS ISDYAVKIVK ANKLDHVVTI IKGKVEEVEL PVEKVDIIIS EWMGYCLFYE SMLNTVLYAR DKWLAPDGLI FPDRATLYVT AIEDRQYKDY KIHWWENVYG FDMSCIKDVA IKEPLVDVVD PKQLVTNACL IKEVDIYTVK VEDLTFTSPF CLQVKRNDYV HALVAYFNIE FTRCHKRTGF STSPESPYTH WKQTVFYMED YLTVKTGEEI FGTIGMRPNA KNNRDLDF TI DLDFKGLCE LSCSTDYRMR

## General References

- Goulet I., et al. (2007) *J Biol Chem.* 282(45):33009-21.
- Tang J., et al. (2000) *J Biol Chem.* 275(11):7723-30.

## DATA

### SDS-PAGE



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