

Recombinant human PRMT1 protein

Catalog Number: PRM0802

PRODUCT INFORMATION

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

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 MgCl₂, 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

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

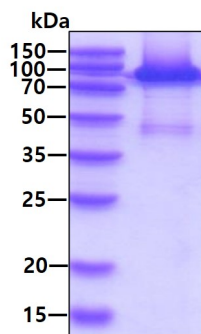
<MHHHHHHMKI EEGKLVIWIN GDKGYNGLAE VGKKFEKDTG IKVTVEHPDK LEEKFPQVAA TGDGPDIIFW AHDRFGGYAQ SGLLAETPD KAFQDKLYPF TWDAVRYNGK LIAYPIAVEA LSLIYNKDLL PNPPKTWEEI PALDKELKAK GKSALMFNLQ EPYFTWPLIA ADGGYAFKYE NGKYDIKDVG VDNAGAKAGL TFLVDLIK NK HMNADTDYSI AEA AFNKGET AMTINGPWAW SNIDTSKVNY GVTVLPTFKG QPSKPFVGV L SAGINAASPN KELAKEFLEN YLLTDEGLEA VNKD KPLGAV ALKS YEEELA KDPRIAATME NAQKGEIMPN IPQMSAFWYA VRTAVINAAS GRQTVDEALK DAQTNSSSNN NNNNNNNNLG IEGRGSH>MAA AEAANCIMEV SCGQAESSEK PNAEDMTSKD YYFDSYAHFG IHEEMLKDEV RTLTYRNSMF HNRHLFKDKV VLDVGS GTGI LCMFAAKAGA RKVIGIECSS ISDYAVKIVK ANKLDHVVTI IKGKVEEVEL PVEKVDIIS EWMGYCLFYE SMLNTVLYAR DKWLAPDGLI FPD RATLYVT AIEDRQYKDY KIHWWENVYG FDMSCIKDVA IKEPLVDVVD PKQLVTNACL IKEVDIYTVK VEDLTFTSPF CLQVKRNDYV HALVAYFNIE FTRCHKRTGF STSPESPYTH WKQTVFYMED YLTVKTGEEI FGTIGMRPNA KNNRDLDF TI DLDFK GQLCE 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.