

Recombinant Human PRMT1, MBP-tagged

Cat. No. PRMT1-31114TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PRMT1 fused to a His-MBP tag at the N-terminus; 750 amino acids, MWt 84 kDa.
Species	Human
Source	E.coli
Description	The PRMT1 gene encodes a protein arginine methyltransferase that functions as a histone methyltransferase specific for H4 (see MIM 602822).
Conjugation	MBP
Biological activity	Specific Activity: 10,000unit/ml. Unit Definition : One unit will transfer 1pmol of methyl group to synthetic peptide of histone H4 for 10 minutes at 37C.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 40% Glycerol, 40mM Tris, 4mM Magnesium chloride, 2mM DTT, 100mM Sodium chloride, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.

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Sequences of amino acids

MHHHHHMKI EEGKLVWIN GDKGYNGLAE VGKKFEKDTGIKVTVEHPDK
 LEEKFPQVAA TGDGPDIIFW AHDRFGGYAQSGLLAEITPD KAFQDKLYPF
 TWDAVRYNGK LIAYPIAVEALSLIYNKDLL PNPPKTWEEI PALDKELKAK
 GKSALMFNLQEPYFTWPLIA ADGGYAFKYE NGKYDIKDVG
 VDNAGAKAGLTFLVDLIKNN HMNADTDYSI AEAAFNKGET
 AMTINGPWAWSNIDTSKVN Y GVTVLPTFKG QPSKPFVGV
 SAGINAASPNKELAKEFLEN YLLTDEGLEA VNKDKPLGAV
 ALKSYYYEELAKDPRIAATME NAQKGEIMPN IPQMSAFWYA
 VRTAVINAASGRQTVDEALK DAQTNSSSN NNNNNNNNLG
 IEGRGSHMAAAEAANCIMEV SCGQAESSEK PNAEDMTSKD
 YYFDSYAHFGIHEEMLKDEV RTLTyrNSMF HNRHLFKDKV
 VLDVSGSGTGILCMFAAKAGA RKVIGIECSS ISDYAVKIVK
 ANKLDHVVTIIGKVVEEVEL PVEKVDIIS EWMGYCLFYE
 SMLNTVLYARDKWLPDGLI FPD RATLYVT AIEDRQYKDY
 KIHWWENVYGFDMSCIKDVA IKEPLVDVVD PKQLVTNACL
 IKEVDIYTVKVEDLTFTSPF CLQVKRNDYV HALVAYFNIE
 FTRCHKRTGFSTSPESPYTH WKQTVFYMED YLTVKTGEEI
 FGTIGMRPNKNNRDLDFI DLDFKGQLCE LSCSTDYRMR

Full Length

Full L.

GENE INFORMATION
Gene Name

PRMT1 protein arginine methyltransferase 1 [Homo sapiens]

Official Symbol

PRMT1

Synonyms

PRMT1; protein arginine methyltransferase 1; HMT1 (hnRNP methyltransferase, S. cerevisiae) like 2 , HMT1 hnRNP methyltransferase like 2 (S. cerevisiae) , HRMT1L2; protein arginine N-methyltransferase 1; ANM1; HCP1;

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Gene ID	3276
mRNA Refseq	NM_001207042
Protein Refseq	NP_001193971
MIM	602950
Uniprot ID	Q99873
Chromosome Location	19q13
Pathway	Androgen Receptor Signaling Pathway, organism-specific biosystem; Direct p53 effectors, organism-specific biosystem; Energy Metabolism, organism-specific biosystem; Tryptophan metabolism, organism-specific biosystem; mRNA processing, organism-specific biosystem;
Function	N-methyltransferase activity; N-methyltransferase activity; histone methyltransferase activity; histone methyltransferase activity (H4-R3 specific); methyltransferase activity;