

PRMT1, human recombinant protein (Active)
HMT2, HRMT1L2, IR1B4
Catalog # PBV10454r

Specification

PRMT1, human recombinant protein (Active) - Product info

Primary Accession [Q99873](#)
Calculated MW **84.0 kDa KDa**

PRMT1, human recombinant protein (Active) - Additional Info

Gene ID **3276**
Gene Symbol **ANM1**

Other Names

Protein arginine N-methyltransferase 1, Histone-arginine N-methyltransferase PRMT1, Interferon receptor 1-bound protein 4, Histone-arginine N-methyltransferase PRMT1, Interferon receptor 1-bound protein 4

Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥90%
Assay2&Purity2	HPLC;
Recombinant	Yes
Sequence	MHHHHHHMKI EEGKLVIWIN GDKGYNGLAE VGKKFEKDTG IKVTVEHPDK LEEKFPQVAA TGDGPDIIFW AHDRFGGYAQ SGLLAETPD KAFQDKLYPF TWDAVRYNGK LIAYPIAVEA LSLIYNKDLL PNPPKTWEEI PALDKELKAK GKSALMFNLQ EPYFTWPLIA ADGGYAFKYE NGKYDIKDVG VDNAGAKAGL TFLVDLIKNN HMNADTDYSI AEA AFNKGET AMTINGPWAW SNIDTSKVNY GVTVLPTFKG QPSKPFVGV SAGINAASPN KELAKEFLEN YLLTDEGLEA VNKDKPLGAV ALKSYYEELA KDPRIATME NAQKGEIMPN IPQMSAFWYA VRTAVINAAS GRQTVDEALK DAQTNSSSNN NNNNNNNNLG IEGRGSHMAA AEAANCIMEV SCGQAESSEKPN AEDMTSKD YYFDSYAHFG IHEEMLKDEV RTLTYRNSMF HNRHLFKDKV VLDVGSGTGI 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 DLDFKGQLCE LSCSTDYRMR.

Format

Liquid

Storage

-80°C; Liquid in 40mM Tris-HCl pH 8.0, 100mM NaCl, 4mM MgCl₂, 2mM DTT & 40% glycerol.

PRMT1, human recombinant protein (Active) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PRMT1, human recombinant protein (Active) - Images**PRMT1, human recombinant protein (Active) - Background**

PRMT1 methylates (mono & asymmetric dimethylation) the guanidino nitrogens of arginyl residues present in a glycine and arginine-rich domain (may methylate HNRNPA1 and histones) methylates SUPT5H. The PRMT1 protein functions as a histone methyltransferase specific for H4. PRMT1 is an essential factor in oncogenesis and is a potential novel therapeutic target in cancer.

PRMT1-mediated methylation serves as a positive modulator of IR/IRS-1/PI3K pathway and glucose uptake in skeletal muscle cells. CAF1 is a new regulator of PRMT1-dependent arginine methylation. PRMT1 arginine-methylates MRE11 therefore it regulates the activity of MRE11-RAD50-NBS1 complex during the intra-S-phase DNA damage checkpoint response. PRMT1 plays a post-translationally part in regulating the transcriptional activity. PRMT1 is found predominantly in the cytoplasm, though a fraction of PRMT1 is located in the nucleus.

PRMT1 Human Recombinant (a.a. 1-353) fused with His-MBP tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 750 amino acids and having a molecular mass of 84 kDa. The PRMT1 is purified by proprietary chromatographic techniques.

PRMT1, human recombinant protein (Active) - References

- Scott H.S., et al. Genomics 48:330-340(1998).
Nikawa J., et al. Gene 171:107-111(1996).
Scorilas A., et al. Biochem. Biophys. Res. Commun. 278:349-359(2000).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Ebert L., et al. Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.