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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 SGLLAEITPD KAFQDKLYPF TWDAVRYNGK LIAYPIAVEA LSLIYNKDLL PNPPKTWEEI PALDKELKAK GKSALMFNLQ EPYFTWPLIA ADGGYAFKYE NGKYDIKDVG VDNAGAKAGL TFLVDLIKNK HMNADTDYSI AEAAFNKGET AMTINGPWAW SNIDTSKVNY GVTVLPTFKG QPSKPFVGVL SAGINAASPN KELAKEFLEN YLLTDEGLEA VNKDKPLGAV ALKSYEEELA KDPRIAATME NAQKGEIMPN IPQMSAFWYA VRTAVINAAS GRQTVDEALK DAQTNSSSNN NNNNNNNNLG IEGRGSHMAA AEAANCIMEV SCGQAESSEKPNAEDMTSKD YYFDSYAHFG IHEEMLKDEV RTLTYRNSMF HNRHLFKDKV VLDVGSGTGI LCMFAAKAGA RKVIGIECSS ISDYAVKIVK ANKLDHVVTI IKGKVEEVEL PVEKVDIIIS EWMGYCLFYE SMLNTVLYAR DKWLAPDGLI FPDRATLYVT AIEDRQYKDY KIHWWENVYG FDMSCIKDVA IKEPLVDVVD PKQLVTNACL IKEVDIYTVK VEDLTFTSPF CLQVKRNDYV HALVAYFNIE FTRCHKRTGF STSPESPYTH WKQTVFYMED YLTVKTGEEI FGTIGMRPNA KNNRDLDFTI 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 Cytomety
- Cell Culture

PRMT1, human recombinant protein (Active) - Images

PRMT1, human recombinant protein (Active) - Background

PRMT1 methylate's (mono & asymmetric dimethylation) the guanidino nitrogens of arginyl residues present in a glycine and arginine-rich domain (may methylate HNRNPA1 and histones) methylate's 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-methylate's 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.