

PRMT1, mouse recombinant protein (Active)
Hrmt1l2, Mrmt1
Catalog # PBV10455r

Specification

PRMT1, mouse recombinant protein (Active) - Product info

Primary Accession [O9JIF0](#)
Calculated MW **84.0 kDa KDa**

PRMT1, mouse recombinant protein (Active) - Additional Info

Gene ID **15469**
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 **Mouse**
Source **E. coli**
Assay&Purity **SDS-PAGE; ≥90%**
Assay2&Purity2 **HPLC; ≥90%**
Recombinant **Yes**
Sequence **MHHHHHHMKI EEGKLVIWIN GDKGYNGLAEE
VGKKFEKDTG IKVTVEHPDK LEEKFPQVAA
TGDGPDIIIFW 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 SCGQAESSEK
PNAEDMTSKD YYFDSYAHFG IHEEMLKDEV
RTLTYRNSMF HNRHLFKDKV
VLDVGSGTGILCMFAAKAGA RKVIGIECSS
ISDYAVKIVK ANKLDHVVTI IKGKVEEVEL
PVEKVDIIS EWMGYCLFYE SMLNTVLHAR
DKWLAPDGLI FPD RATLYVT AIEDRQYKDY
KIHWWENVYG FDMSCIKDVA IKEPLVDVVD
PKQLVTNACL IKEVDIYTVK VEDLTFTSPF
CLQVKRNDYVHALVAYFNIE FTRCHKRTGF
STSPESPYTH WKQTVFYMED YLTVKTGEEI
FGTIGMRPNA KNNRDLDFIT DLDFKGQLCE
LSCSTDYRMR.**

Format

Liquid

Storage

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

PRMT1, mouse 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, mouse recombinant protein (Active) - Images**PRMT1, mouse 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 Mouse Recombinant 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, mouse recombinant protein (Active) - References

Pawlak M.R., et al. Mol. Cell. Biol. 20:4859-4869(2000).
Mowen K.A., et al. Mol. Cell 15:559-571(2004).
van Dijk T.B., et al. Mol. Cell. Biol. 30:260-272(2010).
Fanis P., et al. Mol. Cell. Proteomics 11:1263-1273(2012).
Park J., et al. Mol. Cell 50:919-930(2013).