

32-2734: mPRMT1 Recombinant Protein

Alternative Name : ANM1,HCP1,HRMT1L2,IR1B4,Interferon receptor 1-bound protein 4,EC 2.1.1,Protein arginine N-methyltransferase 1,Prmt1,AW214366,6720434D09Rik.

Description

Source : Escherichia Coli. 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 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.

Product Info

Amount :	50 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The PRMT1 solution (1mg/ml) contains 40mM Tris-HCl pH 8.0, 100mM NaCl, 4mM MgCl ₂ , 2mM DTT and 40% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid :	MHHHHHMKI EEGKLVIIW GDKGYNGLAE VGKFKEDTG IKVTVEHPDK LEEKFPQVAA TGDGPDIIWF AHDRFGGYAQ SGLLAEITPD KAFQDKLYPF TWDAVRYNGK LIAYPIAVEA LSLIYNKDLL PNPPKTWEEI PALDKELKAK GKSALMFNLQ EPYFTWPLIA ADGGYAFKYE NGKYDIKDVG VDNAGAKAGL TFLVDLIK NK HMNADTDYSI AEA AFNKGET AMTINGPWAW SNIDTSKVNY GVTVLPTFKG QPSKPFVGV L SAGINAASPN KELAKEFLEN YLLTDEGLEA V NKDKPLGAV ALKSYEEELA KDPRIAATME NAQKGEIMPN IPQMSAFWYA VRTAVINAAS GRQTVDEALK DAQTNSSSNN NNNNNNNNLG IEGRGSHMAA AEAANCIMEV SCGQAESSEK PNAEDMTSKD YYFDSYAHFG IHEEMLKDEV RLTLYRNSMF HNRHLFKDKV VLDVGS GTGILCMFAAKAGA R K VIGIECSS ISDYAVKIVK ANKLDHVVTI IKGKVEEVEL PVEKVDIIIS EWMGYCLFYE SMLNTVLHAR DKWLAPDGLI FPDRATLYVT AIEDRQYKDY KIHWWENVYG FDMSCIKDVA IKEPLVDVVD PKQLVTNA CL IKEVDIYTVK VEDLTFTSPF CLQVKRNDYVHALVAYFNIE FTRCHKRTGF STSPESPYTH WKQTVFYMED YLTVKTGEEI FGTIGMRPNA KNNRDLDFTI DLDFKQLCE LSCSTDYRMR.

