
Product Data Sheet

Product Name: PRMT1 Mouse
 Cat. No.: GP22161
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ANM1; HCP1; HRMT1L2; IR1B4; Interferon receptor 1-bound protein 4; EC 2.1.1; Protein arginine N-methyltransferase 1; Prmt1; AW214366; 6720434D09Rik.		
Amino Acid Sequence	<p>MHHHHHMKI EEGKLVWIN GDKGYNGLAE VGKKFEKDTG IKVTVEHPDK LEEKFPQVAA TGDGPDIIFW AHDRFGGYAQ SGLLAEITPD KAFQDKLYPF TWDAVRYNGK LIAYPIAVEA LSLIYNKDLL PNPPKTWEEI PALDKELKAK GKSALMFNLQ EPYFTWPLIA ADGGYAFKYE NGKYDIKVDG VDNAGAKAGL TFLVDLIK NK HMNADTDYSI AEA AFNKGET AMTINGPWAW SNIDTSKVNY GVTVLPTFKG QPSKPFVGV L SAGINAASPN KELAKEFLEN YLLTDEGLEA VNKDKPLGAV ALKSYEEELA KDPRIATME NAQKGEIMPN IPQMSAFWYA VRTAVINAAS GRQTVDEALK DAQTNSSSNN NNNNNNNNLG IEGRGSHMAA AEAANCIMEV SCGQAESSEK PNAEDMTSKD YFDSYAHFG IHEEMLKDEV RTLTYRNSMF HNRHLFKDKV VLDVGS GTGILCMFAAKAGA RKVIGIECSS ISDYAVKIVK ANKLDHVVTI IKGKVEEVEL PVEKVDIIS EWMGYCLFYE SMLNTVLHAR DKWLAPDGLI FPDRATLYVT AIEDRQYKDY KIHWWENVYG FDMSCIKDVA IKEPLVDVVD PKQLVTNACL IKEVDIYTVK VEDLTFTSPF CLQVKRNDYVHALVAYFNIE FTRCHKRTGF STSPESPYTH WKQTVFYMED YLTVKTGEEI FGTIGMRPNA KNNRDLFTI DLDFKGQLCE LSCSTDYRMR.</p>		
Formulation	The PRMT1 solution (1mg/ml) contains 40mM Tris-HCl pH 8.0, 100mM NaCl, 4mM MgCl ₂ , 2mM DTT and 40% glycerol.		

Introduction

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

Caution: Product has not been fully validated for medical applications. For research use only.

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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.PRMT1is found predominantly in the cytoplasm though a fraction of PRMT1 is located in the nucleus.

Stability

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.

Background

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.

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