

Product datasheet

Recombinant mouse PRMT1 protein ab78937

1 Image

Description

Product name	Recombinant mouse PRMT1 protein
Biological activity	Specific Activity: >30nmol/min/mg. Unit Definition: The amount of enzyme that transfer 1nmole of methyl group per minute at 37°C.
Purity	> 90 % SDS-PAGE. Purified by using conventional chromatography techniques.
Expression system	Escherichia coli
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Mouse

Sequence

MHHHHHMKI EEGKLVWIN GDKGYNGLAE
 VGKKFEKDTG IKVTVHEPDK LEEKFPQVAA
 TGDGPDIIIFW 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 VNKDKPLGAV
 ALKSYEEELA KDPRIATME NAQKGEIMPN
 IPQMSAFWYA VRTAVINAAS GRQTVDEALK
 DAQTNSSSNN NNNNNNNNLG IEGRGSHMAA
 AEAANCIMEV SCGQAESSEK PNAEDMTSKD
 YFDSYAHFG IHEEMLKDEV RTLTYRNSMF
 HNRHLFKDKV VLDVGS GTGI LCMFAAKAGA
 RKVIGIECSS ISDYAVKIVK ANKLDHVVTI IKGKVEEVEL
 PVEKVDIIIS EWMGYCLFYE SMLNTVLHAR DKWLAPDGLI
 FPDRATLYVT AIEDRQYKDY KIHWWENVY G
 FDMSCIKDVA IKEPLVDVVD PKQLVTNA CL IKEVDIYTVK
 VEDLTFTSPF CLQVKRNDYV HALVAYFNIE
 FTRCHKRTGF STSPESPYTH WKQTVFYMED
 YLTVKTGEEI FGTIGMRPNA KNNRDLDF TI DLDFKGLCE
 LSCSTDYRMR

Amino acids 1 to 353

Additional sequence information This protein has a His-MBP tag at the N-terminus.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab78937** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Form Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.038% Magnesium chloride, 0.0308% DTT, 0.484% Tris, 40% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

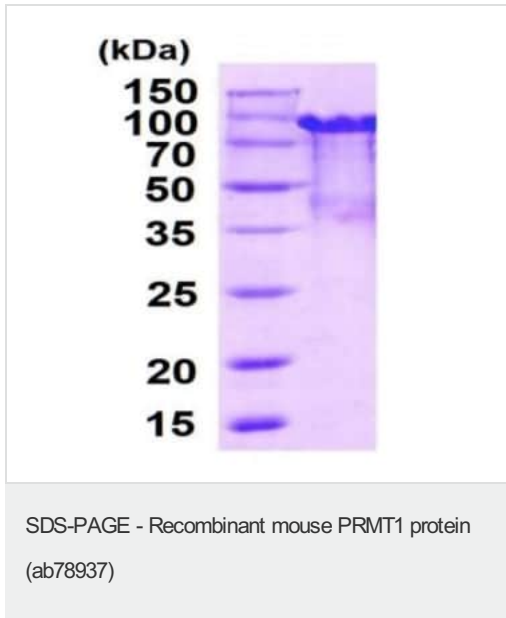
Function Arginine methyltransferase that methylates (mono and asymmetric dimethylation) the guanidino nitrogens of arginyl residues present in proteins such as ESR1, histone H2, H3 and H4, PIAS1, HNRNPA1, HNRNPD, NFATC2IP, SUPT5H, TAF15 and EWS. Constitutes the main enzyme that mediates monomethylation and asymmetric dimethylation of histone H4 'Arg-4' (H4R3me1 and H4R3me2a, respectively), a specific tag for epigenetic transcriptional activation. Together with dimethylated PIAS1, represses STAT1 transcriptional activity, in the late phase of interferon gamma (IFN-gamma) signaling. May be involved in the regulation of TAF15 transcriptional activity, act as an activator of estrogen receptor (ER)-mediated transactivation, play a key role in neurite outgrowth and act as a negative regulator of megakaryocytic differentiation, by modulating p38 MAPK pathway.

Tissue specificity Widely expressed.

Sequence similarities Belongs to the protein arginine N-methyltransferase family.

Cellular localization Nucleus. Cytoplasm > cytosol.

Images



ab78937 on 15% SDS-PAGE, 3µg.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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