Recombinant mouse PRMT1 protein

Catalog Number: PRM0801

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-353aa

UniProt No.
Q9JIF0

NCBI Accession No.
NP_001239405.1

Alternative Names
Protein arginine N-methyltransferase 1 isoform 2, Histone-arginine N-methyltransferase PRMT1, Heterogeneous nuclear ribonucleoproteins methyltransferase-like 2, Hrmt1l2, Mrmt1

PRODUCT SPECIFICATION

Molecular Weight
84 kDa (750aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 40mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 4mM MgCl2, 2mM DTT, 40% glycerol

Purity
> 90% by SDS-PAGE

Biological Activity
Specific activity is > 30nmol/min/mg, and is defined as the amount of enzyme that transfer 1.0nmole of methyl group per minute at 37C.

Tag
His-MBP-Tag

Application
SDS-PAGE, Enzyme Activity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Protein arginine N-methyltransferase 1 (PRMT1) is a type I methyltransferase that transfers a methyl group from S-adenosylmethionine to guanidino nitrogens of arginine residues to form monomethylarginine and asymmetric

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dimethylarginine. Functions of type I arginine methylation in proteins may include regulation of transcription, modulation of the affinity of nucleic acid-binding proteins, regulation of interferon signaling pathways, and targeting of nuclear proteins. Mouse PRMT1 (AAF37293) shares 99. 9% sequence identity with the human proteins (NP_938074). Recombinant mouse PRMT1, fused to His-MBP tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

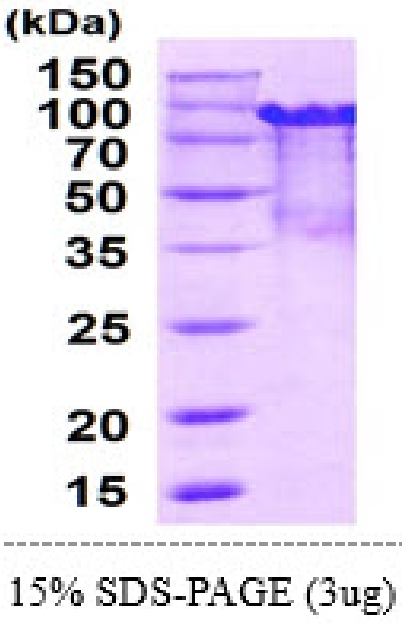
MHHHHHHMKI EEGKLVIWIN GDKGYNGLAE VGKKFEKDTG IKVTVEHPDK LEEKFPQVAA TGDGPDIIFW AHDRFGGYAQ SGLLAEITPD KAFQDKLYPF TWDAVRYNGK LIAYPIAVEA LSLIYNKDLL PNPPKTWEEI PALDKELKAK GKSALMFNLQ EPYFTWPLIA ADGGYAFKYE NGKYDIKDVG VDNAGAKAGL TFLVDLIKNK HMNADTDYSI AEAAFNKGET AMTINGPWAW SNIDTSKVNY GVTVLPTFKG QPSKPFVGVL SAGINAASPN KELAKEFLEN YLLTDEGLEA VNKDKPLGAV ALKSYEEELA KDPRIAATME NAQKGEIMPN IPQMSAFWYA VRTAVINAAS GRQTVDEALK DAQTNSSSNN NNNNNNNNLG IEGRGSHMAA AEAANCIMEV SCGQAESSEK PNAEDMTSKD YYFDSYAHFG IHEEMLKDEV RTLTYRNSMF HNRHLFKDKV VLDVGSGTGI LCMFAAKAGA RKVIGIECSS ISDYAVKIVK ANKLDHVVTI IKGKVEEVEL PVEKVDIIIS EWMGYCLFYE SMLNTVLHAR DKWLAPDGLI FPDRATLYVT AIEDRQYKDY KIHWWENVYG FDMSCIKDVA IKEPLVDVVD PKQLVTNACL IKEVDIYTVK VEDLTFTSPF CLQVKRNDYV HALVAYFNIE FTRCHKRTGF STSPESPYTH WKQTVFYMED YLTVKTGEEI FGTIGMRPNA KNNRDLDFTI DLDFKGQLCE LSCSTDYRMR

General References

Herrmann F., et al. (2005). J Biol Chem. 280(45):38005-10.
Abramovich C., et al. (1997). EMBO J. 16(2):260-6.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.