

Recombinant Rat Protein Arginine Methyltransferase 1

Cat. No. Prmt1-711R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat protein arginine methyltransferase 1 was expressed in <i>E. Coli</i> .
Species	Rat
Source	E.coli
Description	PRMT1 is the predominant member of the methyl transferases, which catalyzes the protein arginine N-methylation reactions. PRMT1 is implicated in various cellular processes including: transcription, RNA processing, and signal transduction. The N-methyltransferase activity is determined by detecting the level of radiolabel transfer from 3H-AdoMet (Methyl donor) to histone, which is arginine rich (methyl acceptor). Actions Methyl transferases catalyze the addition of methyl groups to nitrogen, carbon, sulfur, and oxygen atoms of small molecules, lipids, proteins, and nucleic acids. Eight mammalian protein arginine methyltransferases (PRMT) have been identified.
Unit Definition	The specific activity is ≥ 0.1 nmol/mgP/min. measured by 3H-AdoMet incorporation into histone for 30 minutes at 30°C.
Physical Form	Solution of 50 mM Tris, pH 7.6, 5 mM DTT, 0.2% IGEPAL® CA-630, 150 mM NaCl, and 30% glycerol (w/v).
Legal Information	IGEPAL is a registered trademark of Rhodia Operations.
Assay	$\geq 90\%$ (SDS-PAGE).

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Form	Buffered aqueous solution.
Shipped in	Dry ice.
Storage temp	-20°C.
Personal Protective Equipment	Eyeshields,Gloves,half-mask respirator (EU),half-mask respirator (US),multi-purpose combination r espirator cartridge (US).

GENE INFORMATION

Gene Name	Prmt1 protein arginine methyltransferase 1 [Rattus norvegicus]
Synonyms	Prmt1; protein arginine methyltransferase 1; Hrmt1l2; protein arginine N-methyltransferase 1; heterogeneous nuclear ribonucleoproteins methyltransferase-like 2
Gene ID	60421
mRNA Refseq	NM_024363
Protein Refseq	NP_077339
UniProt ID	Q63009
Chromosome Location	1q22
Function	S-adenosylmethionine-dependent methyltransferase activity; [cytochrome c]-arginine N-methyltransferase activity; histone-arginine N-methyltransferase activity; protein binding; protein methyltransferase activity; protein methyltransferase activity; protein-

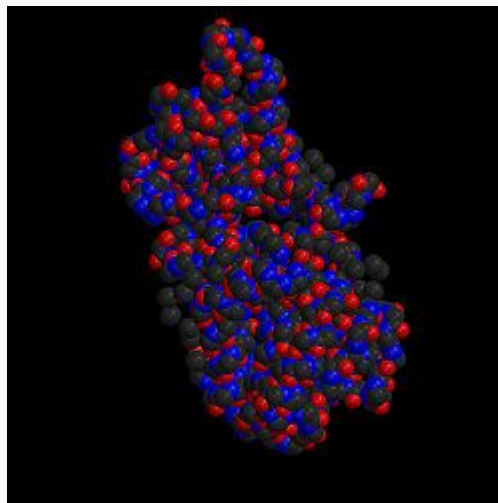
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arginine omega-N asymmetric methyltransferase activity; protein-arginine omega-N monomethyltransferase activity; snoRNP binding; transferase activity

PDB rendering based
on 1or8.



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