

Active Recombinant Human PRMT7, FLAG-tagged

Cat. No. PRMT7-68H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRMT7 (accession number NP_061896.1) was expressed in Sf9 cells and contains an N-terminal FLAG tag with an observed molecular weight of 80.1 kDa.
Species	Human
Source	Sf9 Cells
Description	PRMT7 (Protein Arginine Methyltransferase 7) is a type I arginine methyltransferase. Arginine methylation is a common post-translational modification of histones and other cellular proteins. PRMT7 specifically mediates the symmetrical dimethylation of histone H4 at Arg3 to form H4R3me2s. PRMT7 plays a role in gene imprinting by being recruited by CTCFL at the H19 imprinted control region (ICR) and methylating histone H4 to form H4R3me2s, possibly leading to recruitment of DNA methyltransferases at these sites. PRMT7 may also play a role in embryonic stem cell (ESC) pluripotency. PRMT7 is also able to mediate arginine methylation of histone H2A and myelin basic protein (MBP) in vitro. However, the biological relevance of such results is unclear.
Form	25 mM HEPES, pH 7.5, 150 mM NaCl and 5% glycerol.
Bio-activity	Specifically mediates the symmetrical dimethylation of arginine residues in the small nuclear ribonucleoproteins Sm D1 (SNRPD1) and Sm D3 (SNRPD3). Specifically mediates the symmetric dimethylation of histone H4 "Arg-3" to form H4R3me2s.

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Applications	Enzyme kinetics, inhibitor screening, and selectivity profiling.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Concentration	0.8 mg/ml
GENE INFORMATION	
Gene Name	PRMT7 protein arginine methyltransferase 7 [Homo sapiens]
Official Symbol	PRMT7
Synonyms	PRMT7; protein arginine methyltransferase 7; protein arginine N-methyltransferase 7; FLJ10640; KIAA1933; histone-arginine N-methyltransferase PRMT7; myelin basic protein-arginine N-methyltransferase; [Myelin basic protein]-arginine N-methyltransferase PRMT7;
Gene ID	54496
mRNA Refseq	NM_001184824
Protein Refseq	NP_001171753
MIM	610087
UniProt ID	Q9NVM4
Chromosome Location	16q22.1

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Function

S-adenosylmethionine-dependent methyltransferase activity; [myelin basic protein]-arginine N-methyltransferase activity; histone binding; histone methyltransferase activity (H4-R3 specific); histone-arginine N-methyltransferase activity; protein methyltransferase activity; protein-arginine omega-N monomethyltransferase activity; protein-arginine omega-N symmetric methyltransferase activity; protein-arginine omega-N symmetric methyltransferase activity; ribonucleoprotein complex binding; transferase activity;

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