

Recombinant Human PRMT7, His-tagged

Cat. No. PRMT7-176H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Protein Arginine N-Methyltransferase 7/PRMT7 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Met1-Asp692) of Human PRMT7 fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	1-692 a.a.
Description	Protein Arginine N-Methyltransferase 7 (PRMT7) belongs to the protein arginine N-methyltransferase family and PRMT7 subfamily. Arginine methyltransferase 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. It may also play a role in embryonic stem cell (ESC) pluripotency and mediate the arginine methylation of histone H2A and myelin basic protein (MBP) in vitro. PRMT7 exists as homodimer and heterodimer. PRMT7 can catalyze the formation of omega-NG-monomethylarginine in peptides.
AA Sequence	MKIFCSRANPTTGSVLEEDHYDYHQEIARSSYADMLHDKDRNVKYYQGIRAAV SRVKDRGQK ALVLDIGTGTGLLSMMAVTAGADFCYAIEVFKPMADA AVKIVEKNGF SDKIKVINKHSTEVTVGP EGDMPCRANILVTELFDTELIGEGALPSYEHHRHLVEEN CEAVPHRATVYAQLVESGRMWSWNK LFPIHVQTSLG EQVIVPPVDVESC PGAPSV

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CDIQLNQVSPADFTVLSDVLPMFSDFSKQVSSSA ACHSRRFEPLTSGRAQVVLWS
WDIEMDPEGKIKCTMAPFWAHS DPEEMQWRDHWMQCVYFLPQEE PVVQGSALYL
VAHHDDYCVWYSLQRTSPEKNERVRQMRPVCDCQAHLLWNRPRFGEINDQDRTD
R YVQALRTVLKPDSVCLCVSDGSLLSVLAHHLGVEQVFTVESSAASHKLLRKIFKAN
HLEDKINII EKRPELLTNEDLQGRKVSLLLGEFFTTSLLPWHNLYFWYVRTAVDQHL
GPGAMVMPQAASLHAV VVEFRDLWRIRSPCGDCEGFDVHIMDDMIKRALDFRESR
EAEPHPLWEYPCRSLSSEPWQILTFDF QQPVPLQPLCAEGTVELRRPGQSHAAVLW
MEYHLTPECTLSTGLLEPADPEGGCCWNPHCKQAVY FFSPAPDPRALLGGPRTVS
YAVEFHPDTGDIIMEFRHADTPDVDHHHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

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

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MIM	610087
UniProt ID	Q9NVM4
Chromosome Location	16q22.1
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;