

## 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** MKIFCSRANPTTGSVEWLEEDHYDYHQEIARSSYADMLHDKDRNVKYYQGIRAAV  
SRVKDRGQK ALVLDIGTGTGLLSMMAVTAGADFCYAIEVFKPMADAAVKIVEKNGF  
SDKIKVINKHSTEVTVGP EGDMPCRANILVTELFDTLIGEGALPSYEHHRHLVEEN  
CEAVPHRATVYAQLVESGRMWSWNK LFPPIHVQTSLGEQVIVPPVDVESC PGAPSV

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CDIQLNQVSPADFTVLSDVLPMFSDFSKQVSSSA ACHSRRFEPLTSGRAQVVLWS  
 WDIEMDPEGKIKCTMAPFWAHSPEEMQWRDHWMQCVYFLPQEE PVVQGSALYL  
 VAHDDYCVWYSLQRTSPEKNERVRQMRPVCDCQAHLLWNRPRFGEINDQDRTD  
 R YVQALRTVLKPDSVCLCVSDGSLLSVLAHHLGVEQVFTVESSAASHKLLRKIFKAN  
 HLEDKINII EKRPPELLTNEQLQGRKVSLLLGEPFFTTSLLPWHNLYFWYVRTAVDQHL  
 GPGAMVMPQAASLHAV VVEFRDLWRIRSPCGDCEGFDVHIMDDMIKRALDFRESR  
 EAEPHPLWEYPCRSLSSEPWQILTFDF QQPVPLQPLCAEGTVELRRPGQSHA AVLW  
 MEYHLTPECTLSTGLLEPADPEGGCCWNPHCKQAVY FFSPAPDPRALLGGPRTVS  
 YAVEFHPDTGDIIMEFRHADTPDVDHHHHHH

**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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<b>MIM</b>	610087
<b>UniProt ID</b>	Q9NVM4
<b>Chromosome Location</b>	16q22.1
<b>Function</b>	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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