

Recombinant Human Protein Arginine Methyltransferase 1, GST-tagged

Cat. No. PRMT1-1616H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PRMT1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	PRMT1 is a protein arginine methyltransferase that functions as a histone methyltransferase specific for histone H4. PRMT1 specifically methylates arginine-3 of histone H4 in vitro and in vivo. Methylation of arg3 by PRMT1 facilitates subsequent acetylation of histone H4 tails by p300. PRMT1 performs methylation of arg31 of STAT1 and this is required for transcription induced by IFN-alpha/IFN-beta. Arginine methylation of STAT1 is an additional posttranslational modification regulating transcription factor function, and alteration of arginine methylation might be responsible for the lack of interferon responsiveness observed in many malignancies.
Applications	Western Blot
Molecular Weight	67 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM Tris-HCL, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM PMSF, 0.25 mM DTT, 25% glycerol, 0.1 mM EDTA.

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Purity	> 90 %
Concentration	0.1 ug/ul
Storage	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Androgen Receptor Signaling Pathway; Direct p53 effectors; Energy Metabolism; Tryptophan metabolism; mRNA processing
GENE INFORMATION	
Gene Name	PRMT1 protein arginine methyltransferase 1 [Homo sapiens]
Official Symbol	PRMT1
Synonyms	PRMT1; protein arginine methyltransferase 1; ANM1; HCP1; IR1B4; HRMT1L2;protein arginine N-methyltransferase 1; OTTHUMP00000236172; OTTHUMP00000236176; OTTHUMP00000236178; OTTHUMP00000236179; HMT1 hnRNP methyltransferase-like 2; interferon receptor 1-bound protein 4; histone-arginine N-methyltransferase PRMT1; HMT1 (hnRNP methyltransferase, S. cerevisiae)-like 2; NP_938074.2; EC 2.1.1.125
Gene ID	3276
mRNA Refseq	NM_198318
Protein Refseq	NP_938074
MIM	602950

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UniProt ID	Q8WUW5
Chromosome Location	19q13.3
Function	N-methyltransferase activity; core promoter proximal region DNA binding; enzyme binding; histone methyltransferase activity; histone methyltransferase activity (H4-R3 specific); methyltransferase activity; protein binding; transferase activity
PDBrendering based on 1or8.	