

Active Recombinant Human PRMT1, GST-tagged

Cat. No. PRMT1-181H 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.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	The specific activity of PRMT1 was determined to be 6 nmol /min/mg
Molecular Mass	~68 kDa
Purity	>90% by densitometry

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Applications	Methyltransferase Assay
Storage	Store product at –70 centigrade. 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.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	PRMT1 protein arginine methyltransferase 1 [Homo sapiens]
Official Symbol	PRMT1
Synonyms	PRMT1; protein arginine methyltransferase 1; HMT1 (hnRNP methyltransferase, S. cerevisiae) like 2 , HMT1 hnRNP methyltransferase like 2 (S. cerevisiae) , HRMT1L2; protein arginine N-methyltransferase 1; ANM1; HCP1; interferon receptor 1-bound protein 4; histone-arginine N-methyltransferase PRMT1; HMT1 (hnRNP methyltransferase, S. cerevisiae)-like 2; heterogeneous nuclear ribonucleoprotein methyltransferase 1-like 2; IR1B4; HRMT1L2;
Gene ID	3276
mRNA Refseq	NM_001207042
Protein Refseq	NP_001193971
MIM	602950
UniProt ID	Q99873

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Chromosome Location	19q13
Pathway	Androgen Receptor Signaling Pathway, organism-specific biosystem; Direct p53 effectors, organism-specific biosystem; Energy Metabolism, organism-specific biosystem; Tryptophan metabolism, organism-specific biosystem; mRNA processing, organism-specific biosystem;
Function	N-methyltransferase activity; N-methyltransferase activity; histone methyltransferase activity; histone methyltransferase activity (H4-R3 specific); methyltransferase activity; protein binding; transferase activity;

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