

## Active Recombinant Human PRMT2, FLAG-tagged

Cat. No. PRMT2-67H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PRMT2 (accession number NP_996845.1) was expressed in Sf9 cells and contains an N-terminal FLAG tag with an observed molecular weight of 51 kDa.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	PRMT2 (Protein Arginine Methyltransferase 2) is a member of the protein arginine N-methyltransferase (PRMT) family that is capable of monomethylating and asymmetrically dimethylating arginine residues. PRMT2 methylates the guanidino nitrogens of arginyl residues in proteins such as STAT3, FBL, and histone H4. PRMT2, along with NCOA2, acts as a coactivator of androgen receptor (AR)-mediated transactivation. PRMT2 also acts as a coactivator (with estrogen) of estrogen receptor (ER)-mediated transactivation. PRMT2 enhances PGR, PPAR $\gamma$ , RARA-mediated transactivation and may inhibit NF $\kappa$ B transcription and promote apoptosis. PRMT2 is known to repress E2F1 transcriptional activity in an Rb-dependent manner and may be involved in growth regulation.
<b>Form</b>	25 mM HEPES, pH 7.5, 150 mM NaCl and 5% glycerol.
<b>Bio-activity</b>	PRMT2 methylates the guanidino nitrogens of arginyl residues in proteins such as STAT3, FBL, and histone H4. HMT Assay Conditions: 50 mM TrisCl, pH 8.6, 0.02% Triton X-100, 2 mM MgCl <sub>2</sub> , 1 mM TCEP, 60 ng/ $\mu$ l rH4, 30 ng/ $\mu$ l Recombinant PRMT2

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protein at 2 hours at room temperature. Activity was detected by fluorography.

**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**

1 mg/ml

## 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](#)

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<b>UniProt ID</b>	Q99873
<b>Chromosome Location</b>	19q13
<b>Pathway</b>	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;
<b>Function</b>	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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