

Active Recombinant Human PRMT2, FLAG-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Sf9 Cells
Description	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 γ , RARA-mediated transactivation and may inhibit NF κ 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.
Form	25 mM HEPES, pH 7.5, 150 mM NaCl and 5% glycerol.
Bio-activity	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 ₂ , 1 mM TCEP, 60 ng/ μ l rH4, 30 ng/ μ 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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UniProt ID	Q99873
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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