

Recombinant Human Protein Arginine Methyltransferase 1, His-MBP-tagged

Cat. No. PRMT1-1761H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Human
Product Overview	Recombinant human PRMT1, fused to His-MBP tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Description	Protein arginine N-methyltransferase 1 (PRMT1) is a type I methyltransferase that transfers a methyl group from S-adenosylmethionine to guanidino nitrogens of arginine residues to form monomethylarginine and asymmetric dimethylarginine. Functions of type I arginine methylation in proteins may include regulation of transcription, modulation of the affinity of nucleic acid-binding proteins, regulation of interferon signaling pathways, and targeting of nuclear proteins.
Concentration	1 mg/ml
Form	Supplied as a liquid in 40mM Tris, pH 8.0, containing 100mM NaCl, 4mM MgCl ₂ , 2mM DTT, and 40% glycerol.
Purity	> 90% by SDS -PAGE
Sequence	1-353 amino acids: MHHHHHHMKI EEGKLVIWIN GDKGYNGLAE VGKKFEKDTG

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IKVTVEHPDK LEEKFPQVAA TGDGPDIIFWAHDRFGGYAQ SGLLAEITPD
KAFQDKLYPF TWDAVRYNGK LIAYPIAVEA LSLIYNKDLL
PNPPKTWEEIPALDKELKAK GKSALMFNLQ EPYFTWPLIA ADGGYAFKYE
NGKYDIKDVG VDNAGAKAGL TFLVDLIKNKHMNAD

MolecularMass 84 kDa (750 aa)

Applications SDS-PAGE

Storage Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

OfficialSymbol PRMT1

GENE INFORMATION

Gene Name [PRMT1](#) protein arginine methyltransferase 1 [Homo sapiens]

Synonyms PRMT1; protein arginine methyltransferase 1; ANM1; HCP1; IR1B4; HMT2; HRMT1L2; EC 2.1.1; EC2.1.1.77; EC 2.1.1.125; Interferon receptor 1-bound protein 4; 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-like 2 (S. cerevisiae); HMT1 (hnRNP methyltransferase, S. cerevisiae)-like 2

Gene ID [3276](#)

mRNA Refseq [NM_001536](#)

Protein Refseq [NP_001527](#)

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MIM	602950
UniProt ID	Q99873
Chromosome Location	19q13.3
Pathway	AndrogenReceptor Signaling Pathway; Direct p53 effectors; Energy Metabolism;Tryptophan metabolism; mRNA processing
Function	N-methyltransferaseactivity; histone methyltransferase activity; histone methyltransferaseactivity (H4-R3 specific); methyltransferase activity; protein binding;transferase activity
PDBrendering based on 1or8.	