

Recombinant Full Length Human Protein Arginine Methyltransferase 5, GST-tagged

Cat. No. PRMT5-1618H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PRMT5 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-637 a.a.
Description	PRMT5 is a protein arginine methyltransferase and part of a 20S methyltransferase complex that modifies specific arginines to dimethylarginines in several spliceosomal Sm proteins. This modification targets Sm proteins to the survival of motor neurons (SMN) complex for assembly into small nuclear ribonucleoprotein core particles. MEP50 associates with PRMT5 in the 20S arginine methyltransferase complex in HeLa cells. Antibodies directed against MEP50 can reduce the arginine methyltransferase activity of the immunopurified complex toward Sm substrates. PRMT5-mediated transcriptional repression of reporter gene is dependent on MEP50.
Applications	Western Blot
Molecular Weight	96 kDa
Expression System	Sf9 insect cells using baculovirus

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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.
Purity	> 95 %
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.

GENE INFORMATION

Gene Name	PRMT5 protein arginine methyltransferase 5 [Homo sapiens]
Official Symbol	PRMT5
Synonyms	PRMT5; protein arginine methyltransferase 5; JBP1; SKB1; IBP72; SKB1Hs; HRMT1L5; SKB1 homolog; HMT1 hnRNP methyltransferase-like 5; EC 2.1.1.125; skb1 (S. pombe) homolog; SKB1 homolog (S. pombe); Protein arginine N-methyltransferase 5; Histone-arginine N-methyltransferase PRMT5; Jak-binding protein 1; 72 kDa ICln-binding protein
Gene ID	10419
mRNA Refseq	NM_001039619
Protein Refseq	NP_001034708
MIM	604045

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UniProt ID	O14744
Chromosome Location	14q11.2
Function	histone-arginine N-methyltransferase activity; transferase activity; protein binding; protein-arginine omega-N symmetric methyltransferase activity; methyltransferase activity; ribonucleoprotein binding

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