

PRMT5 recombinant protein

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CATALOG # AAA72884	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

PRMT5; PRMT5 recombinant protein; HRMT1L5; IBP72; JBP1; SKB1; SKB1Hs

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Purity/Purification	>80%
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.1 ug/ul (varies by lot)
Sequence Length	2541
Applicable Applications for PRMT5 recombinant protein	WB (Western Blot), Kinase Assay
Type	Recombinant Fusion Protein
Species	Human
Tag Information	GST tag
Expression System	Sf9 insect cells using baculovirus
Source Note	Recombinant full-length human PRMT5 was expressed by baculovirus in Sf9 insect cells
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70°C. 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.

IMAGES



SDS-PAGE

The purity of PRMT5 was determined to be >80% by densitometry, approx. MW 96 kDa.

ADDITIONAL INFORMATION

Related Product Information for PRMT5 recombinant protein	Recombinant full-length human PRMT5 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: PRMT5 is a protein arginine methyltransferase and part of a 20S methyltransferase complex that modifies specific arginines to dimethylarginines in several spliceosomal Sm proteins (1). 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 (2). 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.
Product Categories/Family for PRMT5 recombinant protein	Acetyl/Methyltransferases Proteins ; Signaling Proteins - Acetyl/Methyltransferase Proteins
References	1. Friesen, W. J. et al: A novel WD repeat protein component of the methylosome binds Sm proteins. J. Biol. Chem. 277: 8243-8247, 2002. 2. Furuno, K. et al: Association of Polycomb group SUZ12 with WD-repeat protein MEP50 that binds to histone H2A selectively in vitro. Biochem. Biophys. Res. Commun. 345: 1051-1058, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	545478994
NCBI GeneID	10419
NCBI Accession #	NP_006100.2
NCBI GenBank Nucleotide #	NM_006109
UniProt Accession #	O14744; Q6IBR1; Q9UKH1; A8MZ91; B5BU10; D3DS33
Molecular Weight	~96 kDa
NCBI Official Full Name	Homo sapiens protein arginine methyltransferase 5 (PRMT5), transcript variant 1, mRNA
NCBI Official Synonym Full Names	protein arginine methyltransferase 5
NCBI Official Symbol	PRMT5
NCBI Official Synonym Symbols	JBP1; SKB1; IBP72; SKB1Hs; HRMT1L5
NCBI Protein Information	protein arginine N-methyltransferase 5; SKB1 homolog; jak-binding protein 1; 72 kDa ICln-binding protein; HMT1 hnRNP methyltransferase-like 5; shk1 kinase-binding protein 1 homolog; histone-arginine N-methyltransferase PRMT5
UniProt Protein Name	Protein arginine N-methyltransferase 5
UniProt Gene Name	PRMT5
UniProt Synonym Gene Names	HRMT1L5; IBP72; JBP1; SKB1; SKB1 homolog; SKB1Hs
UniProt Entry Name	ANM5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/prmt5-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/72884>