

Recombinant Human PRMT5/WDR77 protein, FLAG/His-tagged

Cat. No. PRMT5-32H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRMT5/WDR77(a.a: 2-end (both)) fused with N-terminal FLAG-tag (PRMT5) and N-terminal His-tag (WDR77) was expressed in FreeStyle 293-F cells.
Species	Human
Source	HEK293
ProteinLength	2-end a.a.
Description	Three types of arginine methylation exist in mammalian cells: monomethylarginine (MMA), asymmetric dimethylarginine (ADMA) and symmetric dimethylarginine (SDMA). Type I PRMTs ((CARM1, PRMT1, PRMT2, PRMT3, PRMT6, and PRMT8) catalyze ADMA, while type II PRMTs (e.g. PRMTs 5 and 7) catalyze SDMA. Type II PRMTs are found to be strongly implicated in diseases like cancer. For example, PRMT5 plays a role in the repression of certain tumor suppressor genes such as RB tumor suppressors while PRMT7 overexpression is observed in breast cancer
Form	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 3 mM DTT, 80 g/ml Flag peptide, and 20% glycerol.
Molecular Mass	73 kDa (PRMT5), 37.5 kDa (MEP50)
Purity	>75%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Storage	At least 6 months at -80 centigrade. Avoid freeze/thaw cycles.
GENE INFORMATION	
Gene Name	PRMT5 protein arginine methyltransferase 5 [Homo sapiens]
Official Symbol	PRMT5
Synonyms	PRMT5; protein arginine methyltransferase 5; HRMT1L5, SKB1, skb1 (S. pombe) homolog , SKB1 homolog (S. pombe); protein arginine N-methyltransferase 5; SKB1Hs; 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; JBP1; SKB1; IBP72; HRMT1L5;
Gene ID	10419
mRNA Refseq	NM_006109
Protein Refseq	NP_006100
MIM	604045
UniProt ID	O14744
Chromosome Location	14q11.2
Pathway	E2F transcription factor network, organism-specific biosystem; Gene expression, organism-specific biosystem; Metabolism of non-coding RNA, organism-specific

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biosystem; RNA transport, organism-specific biosystem; RNA transport, conserved biosystem; Signaling events mediated by HDAC Class I, organism-specific biosystem; p53 pathway, organism-specific biosystem;

Function

histone-arginine N-methyltransferase activity; methyltransferase activity; protein binding; protein-arginine omega-N symmetric methyltransferase activity; ribonucleoprotein complex binding; transferase activity;

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