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

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

## SPECIFICATION

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| **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% |

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| **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

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| **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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