

## Recombinant Human PRDM9 Protein, His-tagged

Cat. No. PRDM9-127H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant N-terminal His-tagged human PRDM9 protein (2-511) expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	2-511
<b>Description</b>	<p>The protein encoded by this gene is a zinc finger protein with histone methyltransferase activity that catalyzes histone H3 lysine 4 trimethylation (H3K4me3) during meiotic prophase. This protein contains multiple domains, including a Kruppel-associated box (KRAB) domain, an SSX repression domain (SSXRD), a PRD1-BF1 and RIZ homologous region, a subclass of SET (PR/SET) domain, and a tandem array of C2H2 zinc fingers. The zinc finger array recognizes a short sequence motif, leading to local H3K4me3, and meiotic recombination hotspot activity. The observed allelic variation alters the DNA-binding sequence specificity of the protein, resulting in distinct meiotic recombination hotspots amongst individuals and populations. Multiple alternate alleles of this gene have been described.</p>
<b>Molecular Mass</b>	60.5 kDa
<b>Stability</b>	≥ 1 year
<b>Storage</b>	At -80 centigrade.

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**Storage Buffer** 50 mM Tris-HCl, pH 8.0, containing 150 mM sodium chloride and 20% glycerol

## GENE INFORMATION

**Gene Name** [PRDM9 PR/SET domain 9 \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [PRDM9](#)

**Synonyms**

PRDM9; PR/SET domain 9; PFM6; KMT8B; MSBP3; ZNF899; MEISETZ; histone-lysine N-methyltransferase PRDM9; PR domain 9; PR domain containing 9; PR domain zinc finger protein 9; [histone H3]-lysine36 N-trimethyltransferase PRDM9; [histone H3]-lysine4 N-trimethyltransferase PRDM9; [histone H3]-lysine9 N-trimethyltransferase PRDM9; [histone H4]-N-methyl-L-lysine20 N-methyltransferase PRDM9; [histone H4]-lysine20 N-methyltransferase PRDM9; histone methyltransferase; minisatellite binding protein 3 (115kD); protein-lysine N-methyltransferase PRDM9; EC 2.1.1.354; EC 2.1.1.355; EC 2.1.1.359; EC 2.1.1.361; EC 2.1.1.362

**Gene ID** [56979](#)

**mRNA Refseq** [NM\\_020227](#)

**Protein Refseq** [NP\\_064612](#)

**MIM** [609760](#)

**UniProt ID** [Q9NQV7](#)

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