

PRDM9 recombinant protein

Recombinant PRDM9 (191-415) protein

CATALOG #
AAA60144

HOST
E Coli

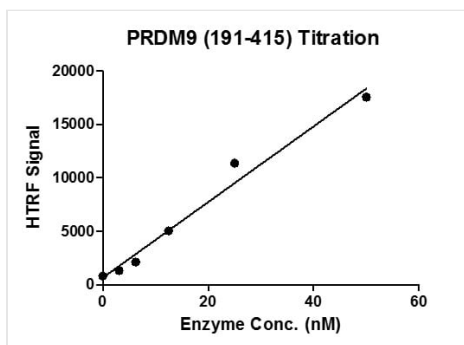
PRODUCT SYNONYMS

PRDM9; Recombinant PRDM9 (191-415) protein; PFM6; MSBP3; ZNF899; MEISETZ; PRDM9 recombinant protein

PRODUCT SPECIFICATIONS

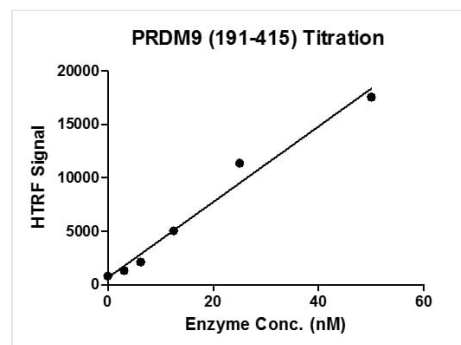
Host	E Coli
Form/Format	Recombinant PRDM9 protein is supplied in 25mM Tris-HCl pH8.0, 300mM NaCl, 10% glycerol and 0.5mM TCEP.
Protein Species	Human
Tag	GST-Tag
Notes	This protein is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. HMT Assay Conditions: 1uM histone peptide H3 (1-21aa) was incubated with different concentrations of PRDM9 protein in 10ul reaction system containing 50mM Tris-HCl pH 8.6, 0.02% Triton X-100, 2mM MgCl ₂ , 1mM TCEP for 3 hours, then 10ul H3K4me3 antibody and SA-XL665 mixture (each 1:100 dilution in HTRF Detection Buffer) was added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.
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	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



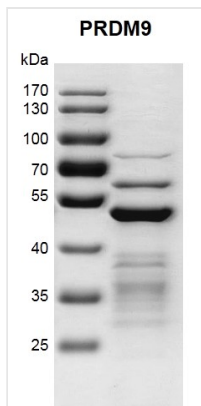
Application Data

HTRF assay for PRDM9 (191-415) activity 1 uM histone peptide H3 (1-21) was incubated with PRDM9 (191-415) in reaction buffer for 3 hours at room temperature. HTRF assay was used for detection. H3K4me3 antibody was used to detect reaction product.



Application Data

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SDS-PAGE

Recombinant PRDM9 protein 10% SDS-PAGE Coomassie staining MW: 52 kDa Purity: > 70%

ADDITIONAL INFORMATION

Related Product Information for PRDM9 recombinant protein

Short Description: Recombinant PRDM9 protein corresponding to amino acids 191-415 of human PRDM9 (accession number NP_064612.2) was expressed in E Coli with an N-terminal GST-Tag. The molecular weight of this protein is 52 kDa. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling.

Background: PRDM9 (PR Domain Containing 9) is a Histone methyltransferase that specifically trimethylates Lys-4 of histone H3 during meiotic prophase and is essential for proper meiotic progression. PRDM9 has the ability to mono- and dimethylate Lys-4 of histone H3. H3 Lys-4 methylation represents a specific tag for epigenetic transcriptional activation. Plays a central role in the transcriptional activation of genes during early meiotic prophase (By similarity).

Product Categories/Family for PRDM9 recombinant protein

[Recombinant Proteins](#); [Histone Methyltransferase \(HMT\)](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	147905620
NCBI GeneID	56979
NCBI Accession #	NP_064612.2
NCBI GenBank Nucleotide #	NM_020227.3
Molecular Weight	103,376 Da
NCBI Official Full Name	histone-lysine N-methyltransferase PRDM9 isoform PRDM9 B
NCBI Official Synonym Full Names	PR domain 9
NCBI Official Symbol	PRDM9
NCBI Official Synonym Symbols	PFM6; MSBP3; ZNF899; MEISETZ
NCBI Protein Information	histone-lysine N-methyltransferase PRDM9

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/prdm9-recombinant-protein-e-coli/60144>