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Data Sheet
PRMT9 Homogeneous Assay Kit
Catalog #52069
Size: 384 reactions

DESCRIPTION: The *PRMT9 Homogeneous Assay Kit* is designed to measure PRMT9 activity for screening and profiling applications. PRMT9 is a histone methyltransferase that exhibits methylation activity toward an arginine residue of SAP145. The *PRMT9 Homogeneous Assay Kit* comes in a convenient AlphaLISA® format, with GST-tagged PRMT9 substrate, primary antibody, methylation assay buffer, and purified PRMT9 for 384 enzyme reactions. The key to the *PRMT9 Homogeneous Assay Kit* is a highly specific antibody that recognizes methylated substrate. With this kit, only three simple steps on a microtiter plate are required for methyltransferase detection. First, a sample containing PRMT9 enzyme is incubated with the substrate. Next, acceptor beads and primary antibody are added, then donor beads, followed by reading the Alpha-counts.

COMPONENTS:

Catalog #	Component	Amount	Storage	
52057	PRMT9	20 µg	-80°C	<i>Avoid freeze/ thaw cycles!</i>
52120-A	250 µM S-adenosylmethionine	400 µl	-80°C	
52140Z3	Primary antibody 28	20 µl	-80°C	
	PRMT9 substrate	400 µl	-80°C	
52170-A	4x HMT assay buffer 2A	3 ml	-20°C	
	4x PRMT9 detection buffer	2 ml	-20°C	
	Protective film (to seal the wells)			

MATERIALS OR INSTRUMENTS REQUIRED BUT NOT SUPPLIED:

AlphaLISA® anti-rIgG acceptor beads, 5 mg/ml (PerkinElmer #AL104C)
AlphaScreen® Glutathione donor beads, 5 mg/ml (PerkinElmer #6765300)
Optiplat-384 (PerkinElmer #6007290)

APPLICATIONS: Great for studying enzyme kinetics and HTS applications.

CONTRAINDICATIONS: Green and blue dyes that absorb light in the AlphaScreen® signal emission range (520-620 nm), such as Trypan Blue. Avoid the use of the potent singlet oxygen quenchers such as sodium azide (NaN₃) or metal ions (Fe²⁺, Fe³⁺, Cu²⁺, Zn²⁺ and Ni²⁺). The presence of >1% RPMI 1640 culture medium leads to a signal reduction due to the presence of excess biotin and iron in this medium. MEM, which lacks these components, does not affect AlphaScreen® assays.

STABILITY: At least one year from date of receipt when stored as directed.

REFERENCE(S): Cook, J, et al., Biochem. Biophys. Res. Commun. 2006 Apr; 342(2):475-481.

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ASSAY PROTOCOL:

All samples and controls should be tested in duplicate.

Step 1:

- 1) Prepare the master mixture: N wells x (2.0 μ l **4x HMT assay buffer 2A** + 1.0 μ l **S-adenosylmethionine** (250 μ M) + 0.5 μ l **PRMT9 substrate** + 1.5 μ l water). Add 5 μ l to wells designated "Positive Control", "Test Sample", and "Blank". To wells labeled "Substrate Control", add 2 μ l **4x HMT assay buffer 2A** + 0.5 μ l **PRMT9 substrate** + 2.5 μ l water.
- 2) Add 3 μ l of Inhibitor solution of each well labeled as "Test Inhibitor". For the "Positive Control", "Substrate Control" and "Blank", add 3 μ l of the same solution without inhibitor (Inhibitor buffer).
- 3) Prepare **1x HMT buffer 2A** by adding 1 part of **4x HMT buffer 2A** to 3 parts water (v/v).
- 4) Thaw **PRMT9** on ice. Upon first thaw, briefly spin tube containing enzyme to recover full content of the tube. Aliquot **PRMT9** enzyme into single use aliquots. Store remaining undiluted enzyme in aliquots at -80°C. *Note: PRMT9 is very sensitive to freeze/thaw cycles. Do not re-use thawed aliquots or diluted enzyme. Depending on the nature of inhibitor, pre-incubation with the enzyme may be necessary.*
- 5) Dilute **PRMT9** in **1X HMT Assay buffer 2A** at 25 ng/ μ l (50 ng/2 μ l). Keep diluted enzyme on ice until use. Discard any unused diluted enzyme after use.

	Positive Control	Test Sample	Substrate Control	Blank
4x HMT assay buffer 2A	2 μ l	2 μ l	2 μ l	2 μ l
250 μ M S-adenosylmethionine	1 μ l	1 μ l	-	1 μ l
PRMT9 substrate	0.5 μ l	0.5 μ l	0.5 μ l	0.5 μ l
H ₂ O	1.5 μ l	1.5 μ l	2.5 μ l	1.5 μ l
Test Inhibitor/Activator	-	3 μ l	-	-
Inhibitor Buffer (no inhibitor)	3 μ l	-	3 μ l	3 μ l
PRMT9 (25 ng/ μ l)	2 μ l	2 μ l	2 μ l	-
1x HMT assay buffer 2A	-	-	-	2
Total	10 μl	10 μl	10 μl	10 μl

- 6) To the wells designated as "Blank", add 2 μ l of 1x PRMT9 Assay buffer.
- 7) Initiate reaction by adding 2 μ l of diluted **PRMT9** enzyme to the wells designated "Positive Control", "Substrate Control", and "Test Sample". Seal the wells with the protective film. Incubate overnight with slow shaking at room temperature.

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Protect your samples from direct exposure to light for steps 2 and 3!

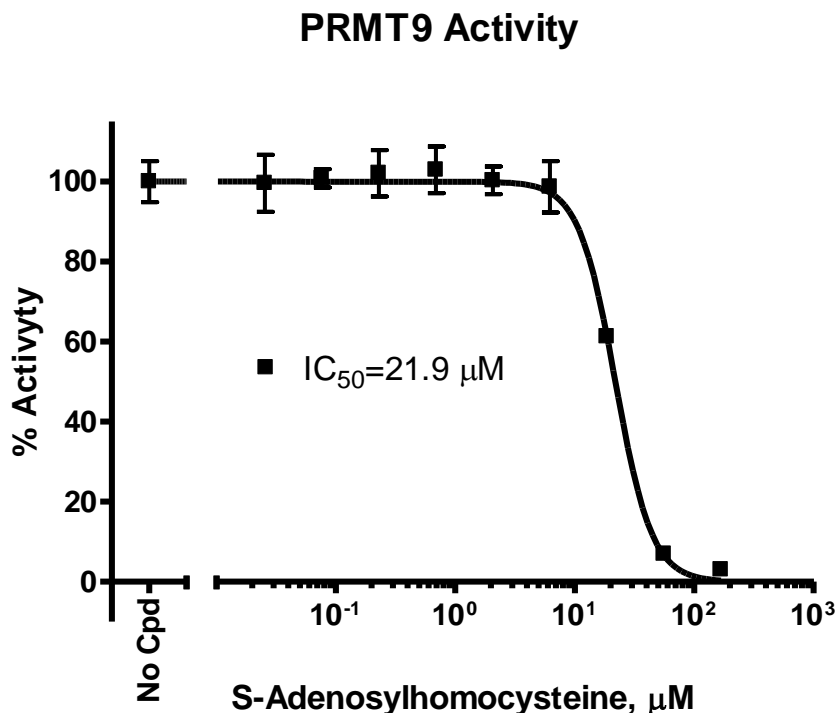
Step 2:

- 1) Dilute anti-Rabbit Acceptor beads (PerkinElmer #AL104C) 1:250-fold with **1x PRMT9 Detection buffer** (made by diluting **4x PRMT9 Detection buffer** 1:4 in distilled water). Add 5 μ l per well. Shake plate briefly.
- 2) Dilute **Primary antibody 28** 100-fold with **1x PRMT9 Detection buffer**. Add 5 μ l per well. Shake plate. Incubate 30 min at room temperature.
(Alternatively, dilute anti-Rabbit Acceptor beads (1:500) and Primary antibody 28 (1:200) with 1x Detection buffer in one step. Add 10 μ L of acceptor beads/antibody mixture per well.)

Step 3:

- 1) Dilute Glutathione donor beads (PerkinElmer #6765300) 125-fold with **1x PRMT9 Detection buffer**. Add 10 μ l per well. Incubate for 30-60 min. at room temperature.
- 2) Read Alpha-counts.

Examples of Assay Results:



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PRMT9 enzyme activity, measured using the *PRMT9 Homogeneous Assay Kit*, BPS Bioscience Cat. #... *Data shown is lot-specific. For lot-specific information, please contact BPS Bioscience, Inc. at info@bpsbioscience.com*

RELATED PRODUCTS:

PRMT1 Homogeneous Assay Kit	#52054	384 reactions
PRMT3 Homogeneous Assay Kit	#52055	384 reactions
PRMT6 Homogeneous Assay Kit	#52056	384 reactions
PRMT8 Homogeneous Assay Kit	#52058	384 reactions
PRMT1 Chemiluminescent Assay Kit	#52004L	96 reactions
PRMT3 Chemiluminescent Assay Kit	#52005L	96 reactions
PRMT4 Chemiluminescent Assay Kit	#52041L	96 reactions
PRMT5 Chemiluminescent Assay Kit	#52002L	96 reactions
PRMT6 Chemiluminescent Assay Kit	#52046	96 reactions
PRMT5 recombinant protein (HEK293)	#51045	20 µg
PRMT5/MEP50 recombinant protein (Sf9)	#51048	20 µg
PRMT1 recombinant protein (<i>E. coli</i>)	#51040	50 µg
PRMT1 recombinant protein (Sf9)	#51041	20 µg
PRMT3 recombinant protein	#51043	50 µg
PRMT4 (CARM 1) recombinant protein	#51047	20 µg
PRMT6 recombinant protein	#51049	20 µg
PRMT7 recombinant protein	#51054	20 µg
PRMT8 recombinant protein	#51052	20 µg
PRMT9 recombinant protein	#51053	20 µg

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