

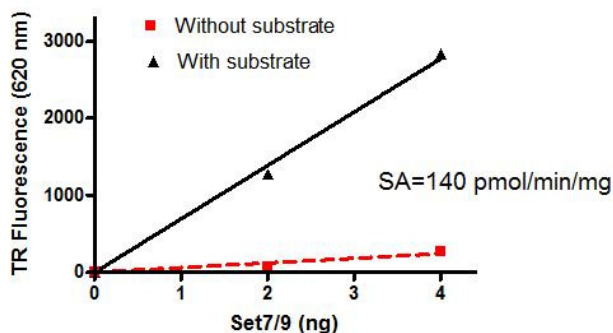
Epigenetic Methylation

Epigenetic regulation of transcription is governed by DNA methylation and post-translational histone modifications. While histone acetylation is well-characterized, the study of histone methylation is more nascent. Histone methyltransferases



(HMTs) and histone demethylases are critical for transcriptional regulation in both normal and diseased states, and are important targets for drug discovery.

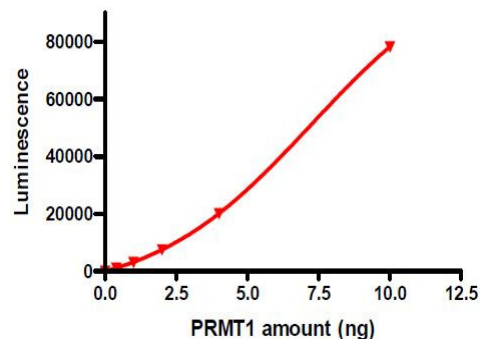
SET7/9 activity



SET7/9 (Cat. #51010) lysine methyltransferase activity, measured using the SET7/9 Methyltransferase Assay Kit, Cat. #52003, in the presence (▲) or absence (■) of S-adenosylmethionine.

Assay Kit	Cat. #	Amount
DNMT1 Assay kit	52050	100 rxns
EZH2 Assay Kit	52009	100 rxns
G9a Assay Kit	52001	100 rxns
LSD1 Assay kit	50106	100 rxns
LSD1 Assay kit	50107	400 rxns
MLL Assay Kit	52008	100 rxns
PRMT1 Assay Kit	52004	100 rxns
PRMT3 Assay Kit	52005	100 rxns
PRMT5 Assay Kit	52002	100 rxns
Set7/9 Assay Kit	52003	100 rxns
SUV39H1 Assay Kit	52006	100 rxns
SUV39H2 Assay Kit	52007	100 rxns

PRMT1 activity

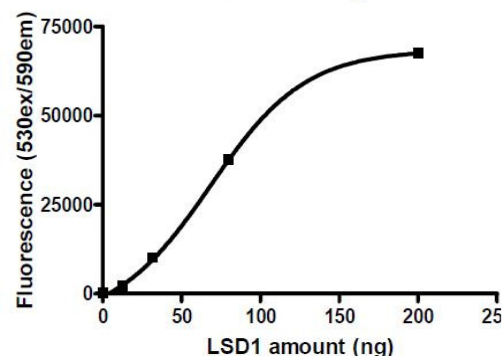


PRMT1 (Cat. #51040) arginine methyltransferase activity, measured using the PRMT1 Assay Kit, Cat. #52004.

Methylation Assay Kits

amsbio supplies a unique portfolio of epigenetic assay kits for methylation research, including enzyme activity assays for DNA methylation (DNMT1), histone demethylation (LSD1), and histone methylation of arginine (PRMT) or lysine (EZH2, G9a, MLL, Set7/9, SUV39H1/2). The fluorometric assays measure the transfer of S-adenosylmethionine to a substrate, followed by fluorescent antibody detection. Suitable for purified enzymes or cell extracts, these simple, sensitive assays provide precise measurement of methylation activity for drug discovery research.

LSD1 activity



LSD1 (Cat. #50100) demethylase activity measured with the LSD1 Fluorescent Assay Kit, Cat. #50106.



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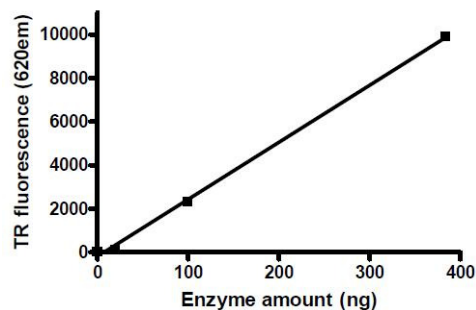
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Methylation Enzymes

amsbio supplies the most extensive line of methylation-related enzymes available. These highly active enzymes are suitable for enzymatic profiling, inhibitor screening assays, and drug discovery.



EZH2/EED/SUZ12/RbAp48/AEBP2 Complex (Cat. #51004) methyltransferase activity, measured using the EZH2 Assay Kit, Cat. #52009.

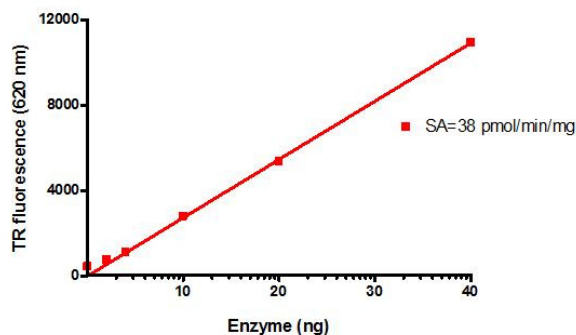
DNA Methyltransferases

Enzyme	Cat. #	Amount
DNMT1	51101	10 µg
DNMT2	51102	10 µg
DNMT3a	51103	10 µg

Histone Demethylases

Enzyme	Cat. #	Amount
LSD1	50100	50 µg
JMJD2C	50105	20 µg
CoREST	50274	100 µg

SUV39H2 activity



SUV39H2 (Cat. #51080) lysine methyltransferase activity, measured with the SUV39H2 Direct Activity Assay Kit, Cat. #52007.

Histone Methyltransferases

Enzyme	Cat. #	Amount
Dot1L	51005	50 µg
EZH1/EED/SUZ12	51006	50 µg
EZH1/EED/SUZ12/RbAp48/AEBP2	51007	50 µg
EZH2/EED inactive	51002	20 µg
EZH2 / EED / SUZ12	51003	50 µg
EZH2/EED/SUZ12/RbAp48/AEBP2	51004	50 µg
G9a (<i>E. coli</i> expression)	51000	50 µg
G9a (Sf9 expression)	51001	20 µg
MLL	51020	50 µg
NSD2 (782-end)/ReBP1I	51025	20 µg
PRDM2 (RIZ1)	51030	100 µg
PRMT1 (<i>E. coli</i> expression)	51040	50 µg
PRMT1 (Sf9 expression)	51041	20 µg
PRMT3	51043	50 µg
PRMT4/CARM1 (Sf9 expression)	51044	20 µg
PRMT4 (HEK293 expression)	51047	20 µg
PRMT5 (Sf9 expression)	51048	20 µg
PRMT5 (HEK293 expression)	51045	20 µg
PRMT6	51046	20 µg
SET2 (HYPB)	51012	100 µg
SET7/SET9	51010	100 µg
SET8	51008	50 µg
SMYD2	51014	20 µg
SMYD3 (35-end)	51015	20 µg
SMYD3 (full length)	51016	20 µg
SUV39H1	51070	50 µg
SUV39H2	51080	50 µg
SUV4-20H1	51090	50 µg
SUV4-20H2	51060	50 µg



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