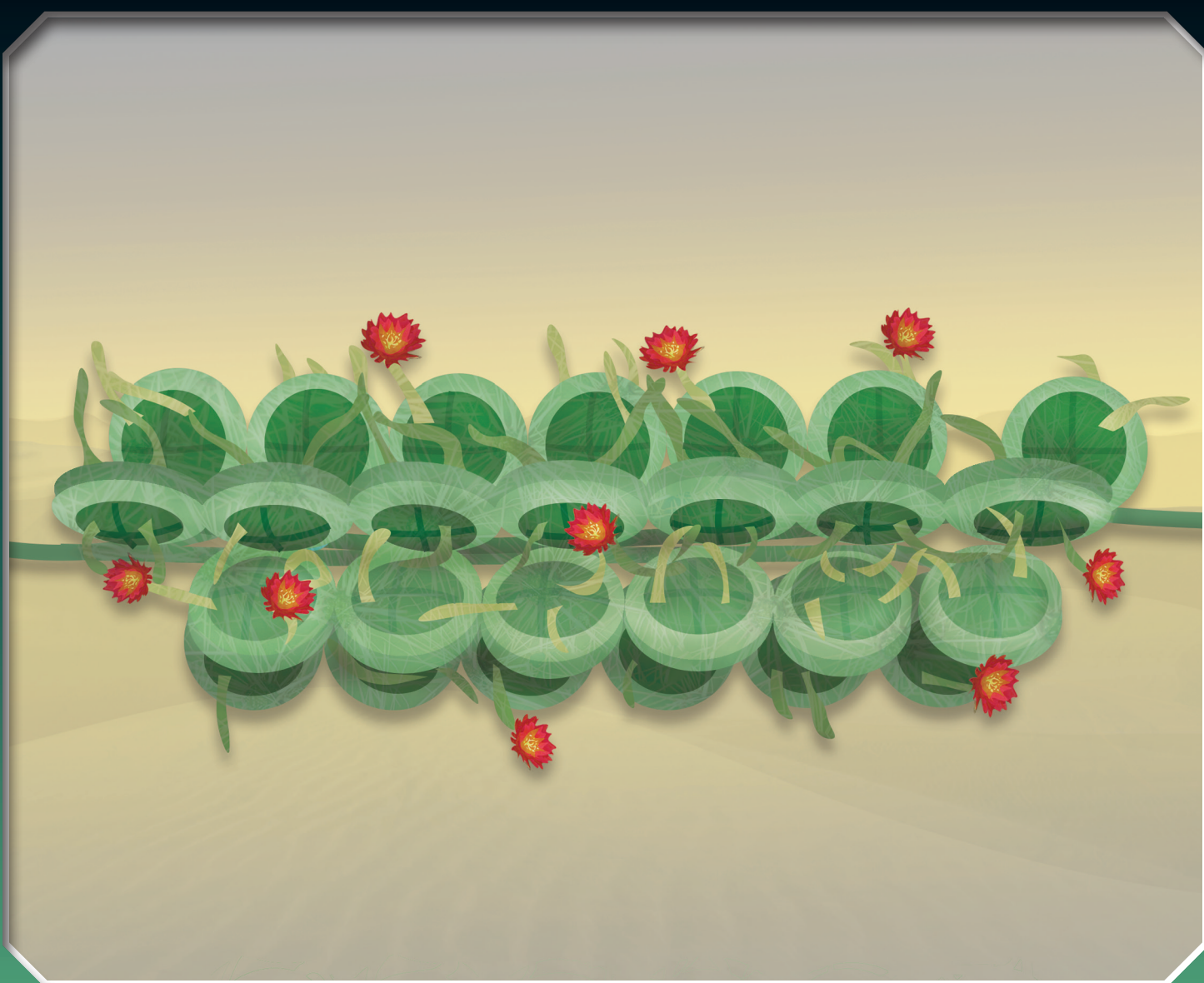




# EPIGENETICS

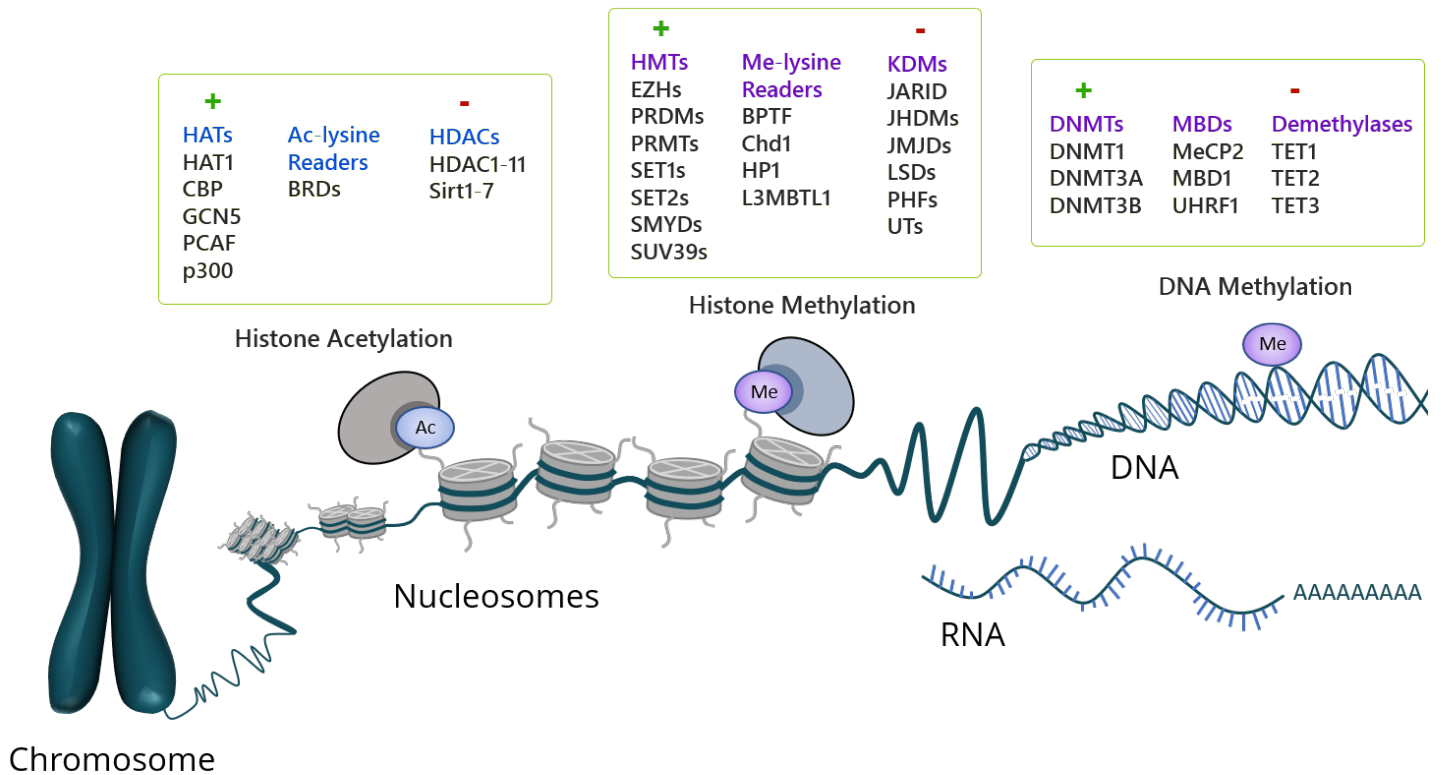
DRUG DISCOVERY SOLUTIONS

Bioactive Recombinant Enzymes | Assay Kits | Screening & Profiling | Custom Services



# Gene Control Without Gene Editing

The field of epigenetics refers to the control or modulation of gene expression that produces a specific phenotype or trait without directly changing DNA sequences. Epigenetic control can occur by modifying DNA, RNA, or by modulating the proteins that bind to DNA, particularly histone proteins. Epigenetic modifications start early in embryonic development and continue as organisms age and are strongly influenced by environmental factors. Epigenetic mechanisms are now important therapeutic drug targets spanning several disease areas, including multiple cancers, myelodysplastic syndromes, autoimmunity, neurodegeneration, and more.



Epigenetic control of DNA expression can occur through several mechanisms. Some primary mechanisms include DNA methylation, histone acetylation and histone methylation. The process of addition and removal of these functional groups involves an array of proteins, many of which are indicated in the figure above. These modifications alter chromatin structure and DNA accessibility, thus either preventing or allowing promoter and enhancer regions to be recognized by transcription factors to initiate gene transcription. In addition, there are families of proteins that recognize and bind to these modifications, known as acetyl-lysine readers or methyl-lysine readers, further exerting epigenetic control. Histone can also be further modified by a large number of post-translational modifications, including phosphorylation, ubiquitination, sumoylation, ADP-ribosylation, citrullination, O-GlcNAcylation, and others. In addition to DNA and histones, RNA modifications can also influence translation, resulting in distinct phenotypes, including diseases that are associated with specific RNA modifications.

Our products and services include novel assay kits and bioactive recombinant proteins optimized for drug discovery. The portfolio includes complete sets of specific protein families not found elsewhere. Read on to learn how our solutions can solve your challenges in epigenetic drug discovery.

# Our Advantages



## Produced In-House

- Made in the USA at our San Diego, CA laboratory
- Get customized, personal support directly from the source



## Committed to Excellence

- ISO 9001:2015-certified Quality Management System
- Lot-specific quality testing



## Protein Expression & Screening Services

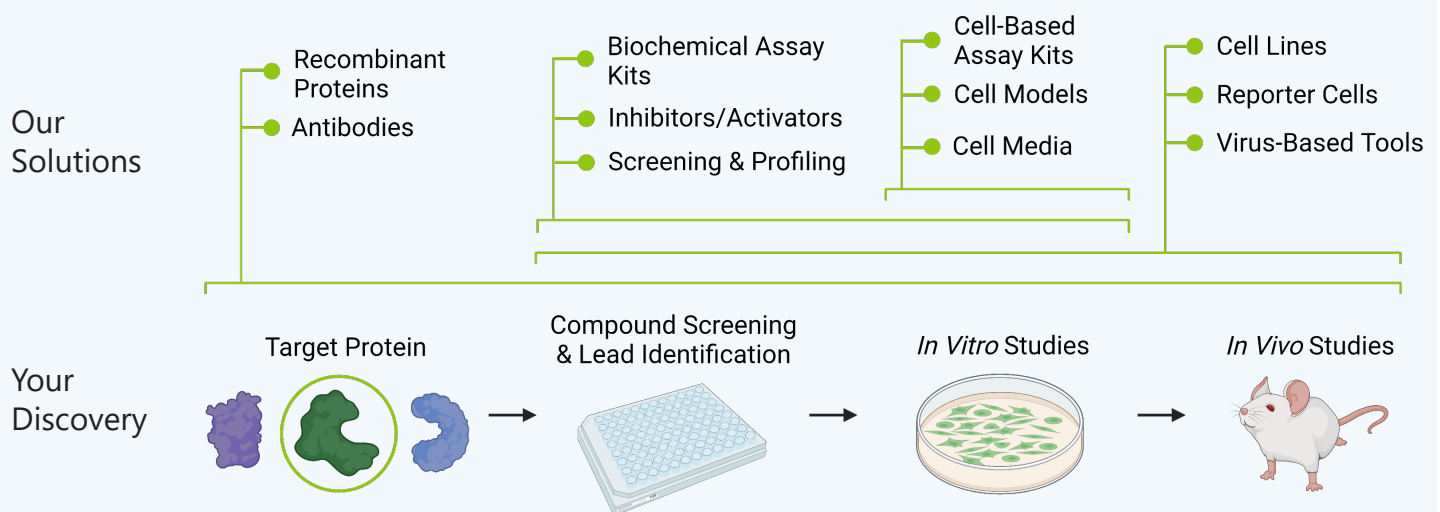
- Screening & Profiling: 110+ biochemical assays to screen your compounds of interest
- Custom protein expression: choice of tags, labeling, expression system, and QC



## Expansive Portfolio

- Assay-ready recombinant proteins: 250+ active epigenetic proteins including complexes
- 175+ inhibitor screening assays
- Substrates - histones, octomers, & nucleosomes, including biotinylated versions
- Full HDAC and sirtuin suite
- Most extensive DNMT offering on the market

## How we drive drug discovery



Created with BioRender.com

# Bioactive Recombinant Proteins

BPS Bioscience specializes in manufacturing bioactive enzymes and protein complexes, offering over 2000 protein products critical for drug discovery. Our epigenetics portfolio consists of over 250 proteins covering complete families of enzymes involved in acetylation and deacetylation, methylation and demethylation, and RNA modification, as well as Bromodomain proteins (acetyl-lysine readers) and methyl-lysine readers.

Protein and peptide substrates, ligands, and small molecule inhibitors are also available.

Protein options include:



## HiP™ Proteins (High Purity, Low Aggregation)

- >90% purity
- Verified via HPLC to guarantee <10% aggregation
- Ideal for studying enzyme activity, ligand binding, protein folding, and more

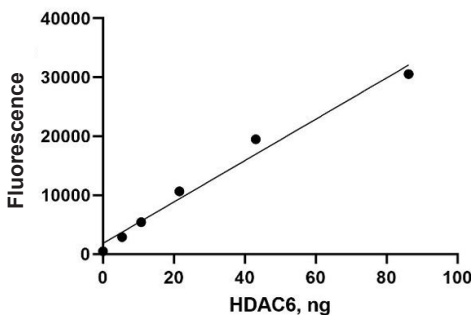
## Bulk Production and Customization

Product sizing, formulations, tags, mutations, and activity testing can be customized to meet your research needs.

## Featuring

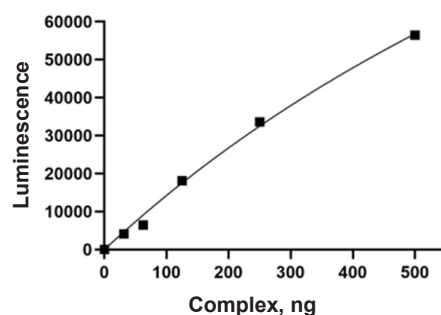
- Active complexes, including DNMT3A/DNMT3L, EZH2/EED/SUZ12/RbAp48/AEBP2, METTL3/METTL14, and more
- Recombinant and native Histone proteins, including tetramers and octamers, with or without tags
- Small molecule inhibitors to establish positive controls for enzyme inhibition
- Mutant and wild-type versions for EZH2, Histone H3, and HDAC6.

### HDAC6 Specific Activity



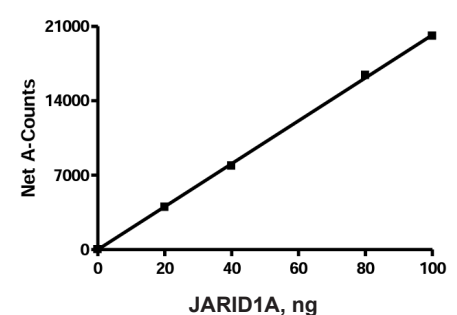
Measurement of HDAC6 activity using a fluorogenic substrate, according to BPS Bioscience #50076, HDAC6 Fluorogenic Assay Kit.

### EZH2/EED/SUZ12/RbAp48/AEBP2 Specific Activity



Measurement of EZH2/EED/SUZ12/RbAp48/AEBP2 complex activity according to BPS Bioscience #52009L, EZH2 Chemiluminescent Assay Kit.

### JARID1A Specific Activity













Measurement of JARID1A demethylation activity using an AlphaLISA®-based assay according to BPS Bioscience #50510, JARID1A Homogeneous Assay Kit.

# Biochemical Assay Kits

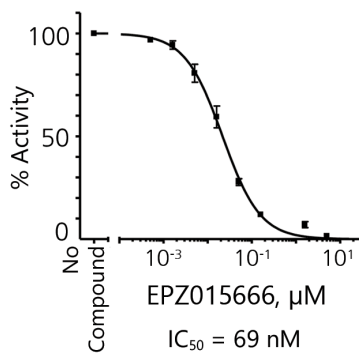
Our 175+ epigenetic assay kits enable your compound and biotherapeutic drug discovery by providing specific, highly sensitive analysis in a variety of formats. Many of our kits are provided as homogenous assays, with no wash steps, for efficient high throughput screening.

Compare the benefits of our assay formats:

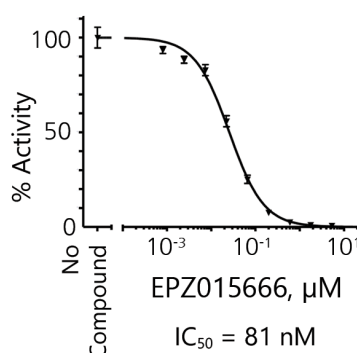
AlphaLISA™	Chemiluminescent	Colorimetric	Fluorescence Polarization	Fluorogenic	Luminescent	TR-FRET	UV Spectrophotometric		
✓	✓	✓	✓	✓	✓	✓	✓		High specificity
✓	✓	✓	✓	✓	✓	✓	✓		High sensitivity with low background noise.
✓		✓	✓	✓	✓	✓	✓		Simple operation
✓		✓	✓	✓	✓	✓	✓		Homogeneous, no-wash format makes it simple for high throughput screening.
✓		✓	✓		✓	✓	✓		Real-time readings do not require equilibrium conditions.
✓		✓			✓	✓			Small volume reactions save on sample consumption.
✓	✓			✓					Large dynamic range, up to 4-5 logs.
		✓				✓			Highly stable signal allows for repetitive measurements.
	✓						✓		Common, low-cost instrumentation
						✓			Use of lanthanide donor fluorophores minimizes photobleaching.

Comparison of PRMT5 activity inhibition by EPZ015666 across three assay formats:

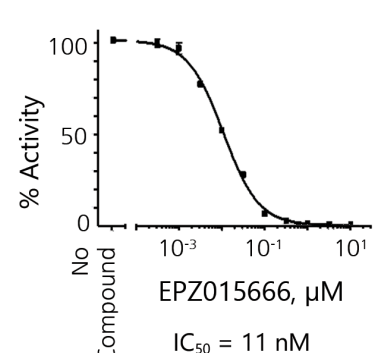
Chemiluminescent Assay



TR-FRET Assay



AlphaLISA® Assay



# Screening & Profiling

BPS Bioscience offers rapid and dependable screening services to determine potency and selectivity of small molecules, peptides, and antibodies against 110+ kinase targets. Our team of experts along with our broad services portfolio make it easy to:

- Screen for inhibitors/targets across full protein families
- Select from IC<sub>50</sub> determination and single point concentrations
- Perform follow-up studies using the same proteins manufactured in-house
- Get questions answered or project guidance in a time-efficient manner

## Our Deliverables to You



### Detailed Results

Extensive report with raw and analyzed data, graphs, and detailed protocols. Typically includes positive controls for inhibition.



### Fast Turnaround

Receive results within weeks after our receipt of your compounds.



### Quality & Consistency

Proteins and enzymes synthesized and QC'd in-house to ensure the highest level of inter- and intra-assay consistency.



### Extensive Selection

Choose from over 200 in-house developed epigenetics-relevant assays, including many novel assay kits.



### Platform Options

Choose the format that works best for your experiment or perform orthogonal testing on multiple platforms to verify your results.

## Key Targets

### Deacetylases

HDACs	Sirtuins
HDAC1	SIRT1
HDAC2	SIRT2
HDAC3	SIRT3
HDAC4	SIRT5
HDAC5	SIRT6
HDAC6	
HDAC7	
HDAC8	
HDAC9	
HDAC10	
HDAC11	

### Methyltransferases

DNMTs	EZHs	PRMTs	SETDs	SMYDs
DNMT1	EZH1	PRMT1	SETDB1	SMYD2
DNMT3A	EZH2	PRMT3	SETD2	SMYD3
DNMT3B	EZH2 (A677G)	PRMT4	SET7/9	SMYD4
DNMT3L	EZH2 (A738T)	PRMT5	SET8	
	EZH2 del153Y	PRMT6		
	EZH2 (P132S)	PRMT7		
	EZH2 (R679C)	PRMT8		
	EZH2 (Y641C)	PRMT9		
	EZH2 (Y641F)			
	EZH2 (Y641H)			
	EZH2 (Y641N)			
	EZH2 (Y641S)			

### Demethylases

KDMs	TETs
LSD1, LSD2	TET1
FBXL10, FBXL11	TET2
JMJD1A, JMJD1B	
JMJD2A, JMJD2B, JMJD2C, JMJD2D, JMJD2E	
JARID1A, JARID1B, JARID1C	
UTX, JMJD3	
JHDM1D, PHF8	

Acetyltransferases	Catalog#	Bromodomains	Catalog#
10x HAT Assay Buffer	50095	ATAD2B Inhibitor Screening Assay Kit	32605
AICAR	27049	ATAD2B TR-FRET Assay Kit	32620
ATAT1, GST-tag Recombinant	50072	BAZ1A, GST-tag Recombinant	31136
ATF2, GST-Tag Recombinant	40520	BAZ1B, GST-tag Recombinant	31137
C646	27613-2	BAZ1B, His-tag Recombinant	31145
C646	27613-1	BAZ2B Inhibitor Screening Assay Kit	32600
GCN5 (727-837), His-tag Recombinant	31114	BAZ2B, His-tag Recombinant	31113
GCN5 (KAT2A), FLAG-tag Recombinant	50074	BET Bromodomain Ligand	33000
GCN5 Chemiluminescent Assay Kit	50079L	BPTF/FALZ TR-FRET Assay Kit	32632
HAT Stop Solution	50096	BRD1 Inhibitor Screening Assay Kit	32521
KAT5 (TIP60), GST-Tag Recombinant	79422	BRD1 TR-FRET Assay Kit	32625
p300 (KAT3B), His-GST-tag Recombinant	50071	BRD1, GST-tag Recombinant	31011
P300 Chemiluminescent Assay Kit	79705	BRD1, His-tag Recombinant	31010
P300 Homogeneous Assay Kit	50078	BRD2 (BD1), His-tag Recombinant	31022
PCAF (KAT2B), His-tag Recombinant	31120	BRD2 (BD1+BD2) TR-FRET Assay Kit	32614
		BRD2 (BD1+BD2), GST-tag Recombinant	31024
		BRD2 (BD1+BD2), His-tag Recombinant	31025
		BRD2 (BD2) Inhibitor Screening Assay Kit	32522
		BRD2 (BD2), GST-tag Recombinant	31023
		BRD2 (BD2), His-tag Recombinant	31020
		BRD2, GST-tag Recombinant	31021
		BRD3 (BD1) Inhibitor Screening Assay Kit	32513
		BRD3 (BD1), GST-tag Recombinant	31032
		BRD3 (BD1), His-tag Recombinant	31030
		BRD3 (BD1+BD2) TR-FRET Assay Kit	32615
		BRD3 (BD1+BD2), GST-tag Recombinant	31035
		BRD3 (BD1+BD2), His-tag Recombinant	31034
		BRD3 (BD2) Inhibitor Screening Assay Kit	32523
		BRD3 (BD2), GST-tag Recombinant	31033
		BRD3 (BD2), His-tag Recombinant	31031
		BRD4 (BD1) Inhibitor Screening Assay Kit	32514
		BRD4 (BD1) TR-FRET Assay Kit	32613
		BRD4 (BD1), GST-tag Recombinant	31040
		BRD4 (BD1), His-tag Recombinant	31042
		BRD4 (BD1+BD2) Recombinant	31047
		BRD4 (BD1+BD2) TR-FRET Assay Kit	32612
		BRD4 (BD1+BD2), GST-Tag Recombinant	31044

Bromodomains	Catalog#
(+)-JQ1	27400
(+)-JQ1	27402
(+)-JQ1	27401
(-)-JQ1	27335
(-)-JQ1	27334
3x BRD Homogeneous Assay Buffer 1	33001
3x BRD Homogeneous Assay Buffer 2	33007
3x BRD Homogeneous Assay Buffer 3	33014
3x BRD Homogeneous Detection Buffer 2	33006
3x BRD Homogeneous Detection Buffer 3	33015
3x BRD TR-FRET Assay Buffer 1	33012
3x BRD TR-FRET Assay Buffer 2	33013
3x Homogeneous BRD Detection Buffer 1	33002
ASH1L, His-tag Recombinant	31147
ATAD2A Inhibitor Screening Assay Kit	32601
ATAD2A TR-FRET Assay Kit	32618
ATAD2A, GST-tag Recombinant	31121
ATAD2A, His-tag Recombinant	31109
ATAD2B (KIAA1240), GST-tag Recombinant	31125
ATAD2B (KIAA1240), His-tag Recombinant	31117

Bromodomains	Catalog#	Bromodomains	Catalog#
BRD4 (BD1+BD2), His-Tag Recombinant	31045	I-BET-762	27630-1
BRD4 (BD2) Inhibitor Screening Assay Kit	32524	I-BET-762	27630-2
BRD4 (BD2) TR-FRET Assay Kit	32617	I-BET151 (GSK1210151A)	27629-3
BRD4 (BD2), GST-tag Recombinant	31041	I-BET151 (GSK1210151A)	27629-1
BRD4 (BD2), His-tag Recombinant	31043	I-BET151 (GSK1210151A)	27629-2
BRD9 (BD1) Inhibitor Screening Assay Kit	32519	I-CBP112 (Hydrochloride)	27336
BRD9 TR-FRET Assay Kit	32621	OTX-015	27636-1
BRD9, GST-tag Recombinant	31091	OTX-015	27636-2
BRD9, His-Tag Recombinant	31090	OTX-015	27636-3
BRDT (BD1), GST-tag Recombinant	31108	P300 (1046-1163), His-tag Recombinant	31118
BRDT (BD1), His-tag Recombinant	31101	PB1 (BD4), His-tag Recombinant	31122
BRDT (BD1+BD2) TR-FRET Assay Kit	32616	PB1 (BD6), His-tag Recombinant	31133
BRDT (BD1+BD2), GST-tag Recombinant	31061	PCAF (KAT2B), His-tag Recombinant	31120
BRDT (BD2), GST-tag Recombinant	31060	PFI-1	27332
BRDT (BD2), His-tag Recombinant	31100	PHIP (BD1), GST-tag Recombinant	31142
Bromodomain Ligand 3	33008	PHIP (BD1), His-tag Recombinant	31140
Bromodomain Ligand 4	33010	RediSolution™ (+)-JQ1	27403
Bromodomain Non-Acetylated Ligand 1	33005	RVX-208	27111
Bromodomain Non-Acetylated Ligand 2	33004	SGC-CBP30	27650-2
Bromodomain Non-Acetylated Ligand 3	33009	SGC-CBP30	27650-1
Bromodomain Non-Acetylated Ligand 4	33011	SMARCA2 Inhibitor Screening Assay Kit	32610
Bromosporine	27612	SMARCA2 TR-FRET Assay Kit	40342
BRPF1, His-tag Recombinant	31112	SMARCA2, GST-tag Recombinant	31141
BRPF3 Inhibitor Screening Assay Kit	32608	SMARCA2, His-tag Recombinant	31111
BRPF3 TR-FRET Assay Kit	32626	SMARCA2, His-Tag, Biotin-Labeled Recombinant	31129
BRPF3, GST-tag Recombinant	31130	SMARCA4 (BRG1), GST-tag Recombinant	31132
CECR2 Inhibitor Screening Assay Kit	32611	SMARCA4 (BRG1), His-tag Recombinant	31102
CECR2 TR-FRET Assay Kit	32622	SMARCA4/BRG1 Inhibitor Screening Assay Kit	32609
CECR2, GST-tag Recombinant	31138	SMARCA4/BRG1 TR-FRET Assay Kit	40341
CECR2, His-tag Recombinant	31046	TAF1 (BD1), His-tag Recombinant	31123
CHS-828	27333	TAF1 (BD1+BD2) TR-FRET Assay Kit	32628
CREBBP (KAT3A), GST-tag Recombinant	31128	TAF1 (BD1+BD2), GST-tag Recombinant	31124
CREBBP (KAT3A), His-tag Recombinant	31119	TAF1 (BD1/BD2) Inhibitor Screening Assay Kit	32604
CREBBP Inhibitor Screening Assay Kit	32607	TAF1 (BD2) Inhibitor Screening Assay Kit	32624
CREBBP TR-FRET Assay Kit	32619	TAF1 (BD2) TR-FRET Assay Kit	32627
FALZ (BPTF), GST-tag Recombinant	31134	TAF1 (BD2), GST-tag Recombinant	31126
FALZ (BPTF), His-tag Recombinant	31131	TAF1 (BD2), His-tag Recombinant	31110



Bromodomains	Catalog#	Deacetylases	Catalog#
TAF1L (BD1), GST-tag Recombinant	31105	Droxinostat	27620-2
TAF1L (BD1), His-tag Recombinant	31103	EX527	27103
TAF1L (BD1+BD2) TR-FRET Assay Kit	32629	Fluorogenic HDAC class 2a substrate	50040
TAF1L (BD1+BD2), GST-tag Recombinant	31107	Fluorogenic HDAC class 2a substrate 2 (green)	50042
TAF1L (BD1/BD2) Inhibitor Screening Assay Kit	32603	Fluorogenic HDAC Substrate 2 (Green fluorescence)	50038
TAF1L (BD2) Inhibitor Screening Assay Kit	32602	Fluorogenic HDAC substrate 3	50037
TAF1L (BD2), GST-tag Recombinant	31106	Fluorogenic HDAC/SIRT substrate 1	50032
TAF1L (BD2), His-tag Recombinant	31104	Fluorogenic Sirtuin 5 Substrate	50126
TRIM24 (TIF1), GST-tag Recombinant	31127	Fluorogenic Sirtuin 6 Substrate	50866
TRIM24 (TIF1), His-tag Recombinant	31116	HC Toxin	27209
TRIM24 Inhibitor Screening Assay Kit	32606	HDAC Assay Buffer	50031
TRIM24 TR-FRET Assay Kit	32630	HDAC developer (2X)	50030
TRIM28, GST-tag Recombinant	31139	HDAC Fluorogenic Assay Kit (Green)	50034
TRIM28, His-Tag Recombinant	31146	HDAC1 Fluorogenic Assay Kit	50061
WDR9/BRWD1 (BD2), GST-tag Recombinant	31135	HDAC1 Kinetic Assay Kit	53001
WDR9/BRWD1 (BD2), His-tag Recombinant	31115	HDAC1, FLAG-Tag, His-Tag Recombinant	50051
WDR9/BRWD1 TR-FRET Assay Kit	32631	HDAC1, His-Tag, FLAG-Tag (Mouse) Recombinant	50058
ZMYND11, GST-tag Recombinant	31144	HDAC10, FLAG-tag Recombinant	50060
ZMYND8, GST-tag Recombinant	31143	HDAC11 Fluorogenic Assay Kit	50687
		HDAC11 Recombinant	50021
		HDAC2 Fluorogenic Assay Kit	50062
		HDAC2 Kinetic Assay Kit	53002
		HDAC2, FLAG-tag Recombinant	50052
		HDAC2, His-tag Recombinant	50002
		HDAC3 Fluorogenic Assay Kit	50073
		HDAC3 Kinetic Assay Kit	53003
		HDAC3/NcoR2, His-Tag, GST-Tag Recombinant	50003
		HDAC4 Fluorogenic Assay Kit	50064
		HDAC4, GST-Tag Recombinant	100339
		HDAC4, GST-tag, His-tag Recombinant	50004
		HDAC5 (full length), GST-tag Recombinant	50045
		HDAC5 Fluorogenic Assay Kit	50065
		HDAC5, Catalytic Domain, His-tag Recombinant	50005
		HDAC5, GST-Tag, His-Tag Recombinant	100102
		HDAC6 (H216A), GST-Tag Recombinant	50046
		HDAC6 (H611A), GST-tag Recombinant	50066
		HDAC6 Fluorogenic Assay Kit	50076
Deacetylases	Catalog#		
4-iodo-SAHA	27205		
AGK2	27228		
Apicidin	27329		
AR-42 (OSU-HDAC42)	27603-1		
AR-42 (OSU-HDAC42)	27603-2		
AR-42 (OSU-HDAC42)	27603-3		
Belinostat (PXD101)	27608-2		
Belinostat (PXD101)	27608-3		
Belinostat (PXD101)	27608-1		
CBHA	27204		
Chidamide	27202		
CI-994	27021		
CUDC-907	27616-3		
CUDC-907	27616-1		
CUDC-907	27616-2		
Droxinostat	27620-1		

Deacetylases	Catalog#	Deacetylases	Catalog#
HDAC6, FLAG-tag Recombinant	50056	Pracinostat (SB939)	27771-3
HDAC6, GST-Tag (HEK293-derived) Recombinant	100051	Pracinostat (SB939)	27771-1
HDAC6, GST-Tag (Mouse) Recombinant	50057	Pyroxamide	27328
HDAC6, GST-tag (Sf9-derived) Recombinant	50006	Resveratrol	27642-3
HDAC7 Fluorogenic Assay Kit	50067	RGFP966	27643-1
HDAC7, GST-tag Recombinant	50007	RGFP966	27643-2
HDAC8 Fluorogenic Assay Kit	50068	RGFP966	27643-3
HDAC8, His-tag Recombinant	50008	Rocilinostat (ACY-1215)	27644-1
HDAC9 Fluorogenic Assay Kit	50069	Rocilinostat (ACY-1215)	27644-2
HDAC9, His-tag Recombinant	50009	Rocilinostat (ACY-1215)	27644-3
HNHA	27206	Romidepsin (FK228, depsipeptide)	27646-2
ITF 2357	27327	Romidepsin (FK228, depsipeptide)	27646-1
JNJ-26481585	27632-1	SAHA (Vorinostat)	27006
JNJ-26481585	27632-2	Salermide	27324
JNJ-26481585	27632-3	SB 939	27331
Kaempferol	27757	Scriptaid	27200
Kinetic HDAC Assay Developer	53029	SIRT1 (Sirtuin1) Fluorogenic Assay Kit	50081
LAQ824 (NVP-LAQ824,Dacinostat)	27760-1	SIRT1/2 Inhibitor IV	27323
LAQ824 (NVP-LAQ824,Dacinostat)	27760-2	SIRT2 (Sirtuin2) Fluorogenic Assay Kit	50087
LpxC (E. coli) Recombinant	11128	SIRT3 (Sirtuin3) Fluorogenic Assay Kit	50088
M344	27203	SIRT5 (Sirtuin5) Fluorogenic Assay Kit	50085
MC1568	27761-2	Sirtinol	27652-1
MC1568	27761-1	Sirtinol	27652-2
Mocetinostat	27019	Sirtuin 1 (193-741), GST-tag Recombinant	50012
MS-275 (Entinostat)	27011	Sirtuin 2, His-Tag Recombinant	50013
NcoR2 (SMRT), GST-tag Recombinant	50020	Sirtuin 3, GST-Tag Recombinant	50014
Oxamflatin	27201	Sirtuin 4, GST-tag Recombinant	50015
Oxamflatin	27326	Sirtuin 5, GST-tag Recombinant	50016
Panobinostat	27020	Sirtuin 6 Fluorogenic Assay Kit	50022
Parthenolide	27768-1	Sirtuin 6, GST-tag Recombinant	50017
Parthenolide	27768-2	Sirtuin 7, FLAG-Tag Recombinant	50018
PCI 34051	27316	Sirtuin Assay Buffer	50090
PCI-24781 (CRA-024781)	27769-2	Sirtuin Developer (2X)	50089
PCI-24781 (CRA-024781)	27769-3	Sodium Phenylbutyrate	27654
PCI-24781 (CRA-024781)	27769-1	Splitomicin	27330
pf-HDAC1, Malaria, His-tag, FLAG-tag Recombinant	50063	SRT1720	27655-1
Pracinostat (SB939)	27771-2	SRT1720	27655-2

Deacetylases	Catalog#	Demethylases	Catalog#
SRT1720	27655-3	GSK J4 HCl	27627-2
Suberohydroxamic Acid (SBHA)	27210	H3K4me1 Substrate	50101
Tenovin-1	27660-1	H3K4me2 Substrate	50158
Tenovin-1	27660-2	Histone H3 K27cMe1, Full Length, His-tag Recombinant	52081
Tenovin-1	27660-3	Histone H3 K27cMe2, Full Length, His-tag Recombinant	52082
Tenovin-6	27661-1	Histone H3 K27cMe3, Full Length, His-tag Recombinant	52083
Tenovin-6	27661-2	Histone H3 peptide (1-21), Dimethyl K9, Biotin-labeled Recombinant	50351
Tenovin-6	27661-3	Histone H3 peptide (1-21), Monomethyl K9, Biotin-labeled Recombinant	50353
Trichostatin A (TSA)	27102	Histone H3 peptide (1-21), Trimethyl K9, Biotin-labeled Recombinant	50350
Tubacin	27662	Histone H3-H4 Tetramer H3K27cMe2, His-tag Recombinant	52086
Tubastatin A	27663-1	Histone H3-H4 Tetramer H3k27cMe3, His-tag Recombinant	52087
Tubastatin A	27663-2	Histone Octamer H3K27cMe2, His-tag Recombinant	52090
Tubastatin A	27663-3	Histone Octamer H3K27cMe3, His-tag Recombinant	52091
Tubastatin A hydrochloride	27108	JARID1A (KDM5A) Chemiluminescent Assay Kit	50513
Valproic Acid	27207	JARID1A (KDM5A) Homogeneous Assay Kit	50510
		JARID1A (KDM5A), FLAG-tag Recombinant	50110
		JARID1A (KDM5A), His-Avi-tags, FLAG-tag Recombinant	50155
		JARID1B (KDM5B) Chemiluminescent Assay Kit	50517
		JARID1B (KDM5B) Homogeneous Assay Kit	50512
		JARID1B (KDM5B) TR-FRET Assay Kit	50514
		JARID1B (KDM5B), Full Length, FLAG-tag Recombinant	50128
		JARID1B (KDM5B, PLU-1), His-FLAG-tags Recombinant	50121
		JARID1C (KDM5C) Homogeneous Assay Kit	50511
		JARID1C(KDM5C), FLAG-tag Recombinant	50112
		JHDM1D (KDM7A) Chemiluminescent Assay Kit	50612
		JHDM1D (KDM7A) Homogeneous Assay Kit	50420
		JHDM1D (KDM7A), FLAG-tag Recombinant	50419
		JMJD1A (KDM3A), FLAG-tag Recombinant	50130
		JMJD1A Homogeneous Assay Kit	50412
		JMJD1B (KDM3B), FLAG-tag Recombinant	50421
		JMJD1B Homogeneous Assay Kit	79839
		JMJD2A (KDM4A) Homogeneous Assay Kit	50413
		JMJD2A(KDM4A) (1-350), His-tag Recombinant	50123
		JMJD2B (KDM4B), GST-tag Recombinant	50111
		JMJD2B Homogeneous Assay Kit	50414
		JMJD2B(KDM4B) , FLAG-tag Recombinant	50104
		JMJD2C (KDM4C) Chemiluminescent Assay Kit	50405

Demethylases	Catalog#
4x Detection Buffer 1	52301
4x HDM Assay Buffer 1	52406
4x HDM Assay Buffer 2	52407
4x HDM Assay Buffer 3	52408
4x HDM Assay Buffer 4	52409
4x HDM Incomplete Assay Buffer	52410
ALKBH5 Chemiluminescent Assay Kit	79659
ALKBH5, FLAG-Tag Recombinant	100057
Biotinylated Histone H3 Peptide Substrate	79656
Blocking Buffer 1 (Multiple Epigenetics Assay Kits)	79556
Blocking Buffer 4 (Multiple Epigenetics Assay Kits)	52100
FBXL10 (KDM2B) Chemiluminescent Assay Kit	50157
FBXL10 (KDM2B) Homogeneous Assay Kit	50610
FBXL10 (KDM2B, JHDM1B), FLAG-tag Recombinant	50120
FBXL11 (KDM2A) Homogeneous Assay Kit	50611
FBXL11 (KDM2A, JHDM1A), FLAG-Avi-tags Recombinant	50156
FTO Chemiluminescent Assay Kit	79344
FTO, His-Tag (Sf9 derived) Recombinant	79480
FTO, His-Tag Recombinant	79306
GSK J4 HCl	27627-1

Demethylases	Catalog#	Demethylases	Catalog#
JMJD2C (KDM4C) Homogeneous Assay Kit	50415	UTX(KDM6A) Homogeneous Assay Kit	50516
JMJD2C, GST-Tag Recombinant	50105		
JMJD2D (KDM4D) Chemiluminescent Assay Kit	50418	<b>Methyltransferases</b>	<b>Catalog#</b>
JMJD2D (KDM4D), GST-tag Recombinant	50117	3-Deazaneplanocin (DZNep)	27617-1
JMJD2D Homogeneous Assay Kit	79838	3-Deazaneplanocin (DZNep)	27617-2
JMJD2E (KDM4DL) Homogeneous Assay Kit	50417	3-Deazaneplanocin A (DZNep) hydrochloride	27618-2
JMJD2E (KDM4DL), GST-tag Recombinant	50118	3-Deazaneplanocin A (DZNep) hydrochloride	27618-1
JMJD3 (KDM6B) Chemiluminescent Assay Kit	50406	400 $\mu$ M S-Adenosylmethionine	52120
JMJD3 (KDM6B) Homogeneous Assay Kit	50416	4x Detection Buffer	79389
JMJD3 (KDM6B), FLAG-tag Recombinant	50115	4x DNMT Assay Buffer 1	52200
JMJD6, GST-tag Recombinant	50140	4x DNMT Assay Buffer 2	52201
LSD1 (KDM1A) Chemiluminescent Assay Kit	50109	4x HMT Assay Buffer 1	52160-A
LSD1 (KDM1A) Homogeneous Assay Kit	50108	4x HMT Assay Buffer 1	52160
LSD1 (KDM1A), Variant 2 Recombinant	50097	4x HMT Assay Buffer 2	52170
LSD1 (KDM1A), Variant 2, GST-tag Recombinant	50100	4x HMT Assay Buffer 2A	52170-A
LSD2 (KDM1B), GST-Tev-Tag Recombinant	50124	4x HMT Assay Buffer 3	52180
LSD2(KDM1B) Homogeneous Assay Kit (Dimethyl)	50614	4x HMT Assay Buffer 4	52190
LSD2(KDM1B) Homogeneous Assay Kit (Monomethyl)	50613	4x HMT Assay Buffer 5	52191
Mouse JARID1B (KDM5B, PLU-1), FLAG-tag Recombinant	50122	4x HMT Assay Buffer 6	52192
OG-L002	27635-1	4x HMT Assay Buffer 7	52193
OG-L002	27635-2	4x METTL Assay Buffer	78368
PHF8 (KDM7B) Homogeneous Assay Kit	50515	AEBP2, His-tag Recombinant	50281
PHF8 (KDM7B), (2-525), FLAG-tag Recombinant	50131	AMI-1 (sodium salt)	27307
PHF8 (KDM7B), Full-length, FLAG-tag Recombinant	50132	Anti- Adenosyl Homocysteine Antibody	52030
Posaconazole	27639-1	Ash2L, His-tag Recombinant	71201
Posaconazole	27639-2	Azacytidine (Vidaza)	27107
Secondary Anti-HRP-labeled Antibody 2	52131H	BIX01294 (hydrochloride hydrate)	27220
TET1 Chemiluminescent Assay Kit	50651	Blocking Buffer 1 (Multiple Epigenetics Assay Kits)	79556
TET1, FLAG-tag Recombinant	50161	Blocking Buffer 4 (Multiple Epigenetics Assay Kits)	52100
TET2 Chemiluminescent Assay Kit	50652	Chaetocin	27221
TET2, FLAG-Tag, His-Tag (916-2002) Recombinant	100408	CoREST, His-tag Recombinant	50274
TET2, FLAG-Tag, His-Tag (catalytic domain) Recombinant	50162	CTPB	27050
TET3, FLAG-Tag, His-Tag Recombinant	50163	DNMT Universal Chemiluminescent Assay Kit	52035
Tranylcypromine (2-PCPA)	27305	DNMT1 Chemiluminescent Assay Kit	52050L
UTX (KDM6A), C-term FLAG-tag Recombinant	50116	DNMT1, GST-tag Recombinant	51101
UTX (KDM6A), N-terminal FLAG-tag Recombinant	50119	DNMT1, His-FLAG-tag Recombinant	51100
UTX Chemiluminescent Assay Kit	50615	DNMT2, GST-tag Recombinant	51102

Methyltransferases	Catalog#	Methyltransferases	Catalog#
DNMT3A Chemiluminescent Assay Kit	52033	EZH2 (A738T) Chemiluminescent Assay Kit	79275
DNMT3a, GST-Tag Recombinant	51103	EZH2 (del153Y)/EED/SUZ12/RbAp48/AEBP2, FLAG, His-tag Recombinant	51027
DNMT3A/DNMT3L Complex, His-tag, GST-tag Recombinant	51106	EZH2 (E740K)/EED/SUZH12/RbAp48/AEBP2, FLAG-tag, His-tag Recombinant	51032
DNMT3B Chemiluminescent Assay Kit	52034	EZH2 (F667I)/EED/SUZH12/RbAp48/AEBP2, FLAG-tag, His-tag Recombinant	51035
DNMT3B, His-tag, FLAG-tag (Mouse) Recombinant	51105	EZH2 (H689Y)/EED/SUZ12/RbAp48/AEBP2, FLAG-tag, His-tag Recombinant	51023
DNMT3B/DNMT3L Complex, GST-tag, His-tag Recombinant	51109	EZH2 (non-complexed), His-GST-tags Recombinant	50279
DNMT3B/DNMT3L Complex, His-tag, GST-tag Recombinant	51104	EZH2 (P132S)/EED/SUZ12/RbAp48/AEBP2, FLAG-tag, His-tag Recombinant	51019
DOT1L (KMT4) Chemiluminescent Assay Kit	52202	EZH2 (R679C)/EED/SUZH12/RbAp48/AEBP2, FLAG-tag, His-tag Recombinant	51033
DOT1L (KMT4), GST-tag Recombinant	51005	EZH2 (Y641C) /EED/SUZ12/RbAp48/AEBP2, His-tag, FLAG-tag Recombinant	51029
DPY30, His-tag Recombinant	71203	EZH2 (Y641F) /EED/SUZ12/RbAp48/AEBP2, His-tag, FLAG-tag Recombinant	51017
EED, FLAG-tag Recombinant	50280	EZH2 (Y641F) Chemiluminescent Assay Kit	52075
EHMT1 (GLP) Chemiluminescent Assay Kit	53007	EZH2 (Y641F) Chemiluminescent Assay Kit	79276
EHMT1 (GLP), GST-tag Recombinant	51020	EZH2 (Y641H) /EED/SUZ12/RbAp48/AEBP2, His-tag, FLAG-tag Recombinant	51011
Ellagic acid	27219	EZH2 (Y641N) /EED/SUZ12/RbAp48/AEBP2, His-tag, FLAG-tag Recombinant	51028
Entacapone	27621-1	EZH2 (Y641N) Chemiluminescent Assay Kit	52076
Entacapone	27621-2	EZH2 (Y641N) Chemiluminescent Assay Kit	79277
EPZ-6438	27626-1	EZH2 (Y641N) TR-FRET Assay Kit	52078
EPZ-6438	27626-2	EZH2 (Y641S) /EED/SUZ12/RbAp48/AEBP2, His-tag, FLAG-tag Recombinant	51013
EPZ-6438	27626-3	EZH2 / EED / SUZ12, His-tag, FLAG-tag Recombinant	51003
EPZ004777	27622	EZH2 Chemiluminescent Assay Kit	52009L
EPZ005687	27624-1	EZH2 Chemiluminescent Assay Kit	52085
EPZ005687	27624-2	EZH2 Homogeneous Assay Kit	52059
EPZ015666	79043-1	EZH2(Y641F) TR-FRET Assay Kit	52680
EPZ015666	79043-2	EZH2-EED Binding Assay Kit	52066
EPZ5676	27625-1	EZH2/EED, His-tag, FLAG-tag Recombinant	51002
EPZ5676	27625-2	EZH2/EED/SUZ12/RbAp48, His-tag, FLAG-tag Recombinant	51099
EZH1 Chemiluminescent Assay Kit	52990	EZH2/EED/SUZ12/RbAp48/AEBP2, FLAG-tag, His-tag Recombinant	51004
EZH1 Chemiluminescent Assay Kit	52079	EZH2/SUZ12/RbAp48, His-GST-tags, His-tag Recombinant	51098
EZH1/EED/SUZ12, His-tag, FLAG-tag Recombinant	51006	G9a (EHMT2), GST-tag (E. coli-derived) Recombinant	51000
EZH1/EED/SUZ12/RbAp48/AEBP2, His-tag, FLAG-tag Recombinant	51007	G9a (EHMT2), GST-tag (Sf9-derived) Recombinant	51001
EZH2 (A677G) Chemiluminescent Assay Kit	52077	G9a Chemiluminescent Assay Kit	52001L
EZH2 (A677G) Chemiluminescent Assay Kit	52070	G9a Homogeneous Assay Kit	52051
EZH2 (A677G)/EED/SUZ12/RbAp48/AEBP2, His-tag, FLAG-tag Recombinant	51037	Histone H1, Full Length, His-tag Recombinant	52043
EZH2 (A677T)/EED/SUZ12/RbAp48/AEBP2, His-tag, FLAG-tag Recombinant	51039	Histone H2a, Full Length, Biotin-labeled, His-tag Recombinant	52036
EZH2 (A687V)/EED/SUZ12/RbAp48/AEBP2, His-tag, FLAG-tag Recombinant	51038	Histone H2a, Full Length, Biotin-labeled, His-tag Recombinant	52049
EZH2 (A738T) /EED/SUZ12/RbAp48/AEBP2, FLAG-Tag, His-Tag Recombinant	51061	Histone H2a, Full Length, His-tag Recombinant	52025
EZH2 (A738T) Chemiluminescent Assay Kit	52067	Histone H2a, Full Length, His-tag Recombinant	52021

Methyltransferases	Catalog#	Methyltransferases	Catalog#
Histone H2b, Full Length, His-tag Recombinant	52026	METTL3, FLAG-Tag Recombinant	100055
Histone H2b, Full Length, His-tag Recombinant	52022	METTL3/METTL14 Complex Chemiluminescent Assay Kit	79614
Histone H3 (2-58), GST-tag Recombinant	52013	METTL3/METTL14 Protein Complex, FLAG-Tag, His-Tag Recombinant	100105
Histone H3 (K27M), His-tag Recombinant	52101	MGMT, His-Tag Recombinant	101602
Histone H3 K27C, Full Length, His-tag Recombinant	52080	MLL1 Complex Chemiluminescent Assay Kit	53008
Histone H3 K27cMe1, Full Length, His-tag Recombinant	52081	MLL1/WDR5/Ash2L/RbBP5 (MLL1/WAR Complex), His-tag Recombinant	51022
Histone H3 K27cMe2, Full Length, His-tag Recombinant	52082	MLL1/WDR5/Ash2L/RbBP5/DPY30 (MLL1/WAR Complex), FLAG, His-Tag Recombinant	51021
Histone H3 peptide (1-21)	52010	MLL3 Complex Chemiluminescent Assay Kit	79758
Histone H3 peptide (1-21), Biotin-labeled Recombinant	52011	MLL3/WDR5/Ash2L/RbBP5/DPY30 Complex Recombinant	100323
Histone H3 peptide (21-44)	52016	MLL4 Complex Chemiluminescent Assay Kit	79757
Histone H3 peptide (21-44), Biotin-labeled Recombinant	52017	Native Core Histone Octamers	52065
Histone H3 Peptide (21-44), Monomethyl K27, Biotin-labeled Recombinant	52020	Native nucleosome (HEK293-derived)	52015
Histone H3 Recombinant	79055-2	Native Nucleosome (HeLa-derived)	52039
Histone H3 Recombinant	79055-1	NNMT, His-Tag Recombinant	11357
Histone H3(K9) Universal Methyltransferase New Assay Kit	52072	NSD1 Chemiluminescent Assay Kit	53010
Histone H3, Full Length, Biotin-labeled, His-tag	52047	NSD1, GST-tag Recombinant	51024
Histone H3, Full Length, Biotin-labeled, His-tag	52053	NSD2 (catalytic domain), GST-tag Recombinant	51026
Histone H3, Full Length, His-tag Recombinant	52023	NSD2 Chemiluminescent Assay Kit	79359
Histone H3, Full Length, His-tag Recombinant	52027	NSD2 Chemiluminescent Assay Kit	53009
Histone H3-H4 Tetramer H3K27C Unmodified, His-tag Recombinant	52084	NSD3 (1021-1322) (WHSC1L1), GST-tag Recombinant	51036
Histone H3-H4 Tetramer H3K27cMe2, His-tag Recombinant	52086	NSD3 Chemiluminescent Assay Kit	79358
Histone H3/H4 Tetramer (full length), His-tag Recombinant	52064	NSD3 Chemiluminescent Assay Kit	53012
Histone H4 (2-58), GST-tag Recombinant	52019	PRDM12, GST-tag Recombinant	50320
Histone H4 peptide (1-21)	52014	PRDM14, GST-tag Recombinant	50321
Histone H4 peptide (1-21), Biotin-labeled Recombinant	52018	PRDM9 Chemiluminescent Assay Kit	79625
Histone H4 peptide (1-21), Dimethyl R3, Biotin-labeled Recombinant	51200	PRDM9, GST-Tag Recombinant	100078
Histone H4, Full Length, His-tag Recombinant	52024	PRMT1 Chemiluminescent Assay Kit	52004L
Histone H4, Full Length, His-tag Recombinant	52028	PRMT1 Homogeneous Assay Kit	52054
Histone Octamer (Full length) Recombinant	52040	PRMT1, GST-tag (E. coli-derived) Recombinant	51040
Histone Octamer (full length), His-tag Recombinant	52037	PRMT1, His-GST-tag (Sf9-derived) Recombinant	51041
Histone Octamer H3K27C Unmodified, His-tag Recombinant	52088	PRMT2, FLAG-Tag Recombinant	100471
Histone Octamer H3K27cMe2, His-tag Recombinant	52090	PRMT3 Chemiluminescent Assay Kit	52005L
Histone Octamer, Biotin-labeled, His-tag Recombinant	52061	PRMT3 Homogeneous Assay Kit	52055
Histone-H2A-(107-122)-Ac-OH	27628-1	PRMT3, GST-tag Recombinant	51043
Histone-H2A-(107-122)-Ac-OH	27628-2	PRMT4 (CARM1), FLAG-tag (HEK293-derived) Recombinant	51047
MECP2, GST-tag Recombinant	50250	PRMT4 Chemiluminescent Assay Kit	52041L
Metnase (SETMAR), FLAG-tag Recombinant	51018	PRMT4 Homogeneous Assay Kit	52068

Methyltransferases	Catalog#	Methyltransferases	Catalog#
PRMT4 peptide substrate, Biotin-labeled	50352	SMYD2 (KMT3C), FLAG-tag Recombinant	51014
PRMT5 Chemiluminescent Assay Kit	52002L	SMYD3 (35-end), GST-tag Recombinant	51015
PRMT5 Chemiluminescent Assay Kit	52073	SMYD3 (full length), FLAG-tag Recombinant	51016
PRMT5 Homogeneous Assay Kit	52052	SMYD3 Homogeneous Assay Kit	52063
PRMT5 TR-FRET Assay Kit	52171	SMYD4 Chemiluminescent Assay Kit	53013
PRMT5, FLAG-Avi-Tag, Biotin-Labeled Recombinant	79191	SMYD4, FLAG-tag Recombinant	51057
PRMT5/MEP50, Biotin-Labeled Recombinant	52102	SUV39H1 Chemiluminescent Assay Kit	52006L
PRMT5/MEP50, FLAG-Tag, His-Tag (HEK293-derived) Recombinant	51045	SUV39H1, GST-tag Recombinant	51070
PRMT5/MEP50, FLAG-Tag, His-Tag (Sf9-derived) Recombinant	51048	SUV39H2 Activity Assay Kit	52008L
PRMT6 (HRMT1L6) Chemiluminescent Assay Kit	52046	SUV39H2, GST-Tag Recombinant	51080
PRMT6 (HRMT1L6) Homogeneous Assay Kit	52056	SUV4-20H1 Chemiluminescent Assay Kit	53011
PRMT6, His-tag Recombinant	51049	SUV4-20H1, GST-tag Recombinant	51090
PRMT7 Homogeneous Assay Kit (Histone H2b)	79720	SUV4-20H2, GST-tag Recombinant	51060
PRMT7, His-FLAG-tag Recombinant	51054	SUZ12, His-FLAG-tags Recombinant	50282
PRMT8 Chemiluminescent Assay Kit	52062	UNC0224	27303
PRMT8 Homogeneous Assay Kit	52058	UNC0321 (TFA salt)	27306
PRMT8, His-FLAG-tags Recombinant	51052	UNC0638	27222
PRMT9 Homogeneous Assay Kit	52069	WDR5, FLAG-tag Recombinant	51111
PRMT9, FLAG-Tag, His-Tag Recombinant	79124	WDR5, His-tag Recombinant	71200
PRMT9, FLAG-Tag, Strep-Tag Recombinant	52057	WDR5, His-Tag, Biotin-Labeled Recombinant	80016
RbAp48, His-tag Recombinant	50297		
RbBP5, His-tag Recombinant	71202		
Recombinant Nucleosome (E. coli-derived)	52333		
Recombinant Nucleosome (E. coli-derived)	52038		
Recombinant Nucleosome (E. coli-derived), Biotin-labeled, His-Tag	52048		
S-adenosyl homocysteine	52031		
S-adenosyl homocysteine, Fluorescein-labeled	52012		
SAP145, GST-Tag Recombinant	79111		
Secondary Anti-HRP-labeled Antibody 2	52131H		
Set7/9 (Sf9), His-GST-tags Recombinant	50019		
Set7/Set9, GST-tag (E. coli-derived) Recombinant	51010		
Set8, Active, GST-tag Recombinant	51008		
SETD2 Chemiluminescent Assay Kit	52060		
SETD2, GST-tag Recombinant	53019		
SetDB1 Chemiluminescent Assay Kit	51056		
SetDB1, His-GST-tags Recombinant	51055		
SMYD2 (KMT3C) Chemiluminescent Assay Kit	51031		



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