

Epigenetic Research Tools



Cayman Chemical provides a full toolkit of reagents to study the fundamental actions of epigenetic writers, erasers, and readers on histones, DNA, and RNA. This includes ELISAs, cell-based assays, high-throughput screening assays using TR-FRET technology, a full line of recombinant proteins, and validated antibodies. In addition, we partner with the Structural Genomics Consortium to provide potent, selective, and cell-permeable inhibitors of epigenetic protein function.

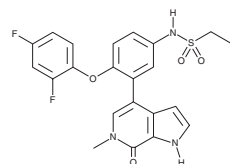
Featured Inhibitors:

More than 250 epigenetic inhibitors available online

ABBV-075

Item No. 21033

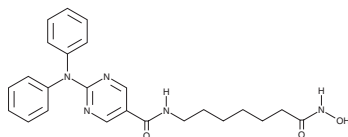
A potent BRD2/4 and BRDT inhibitor



ACY-1215

Item No. 21531

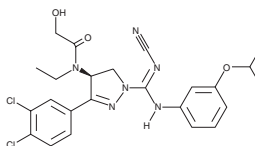
A selective inhibitor of HDAC6



BAY-598

Item No. 18238

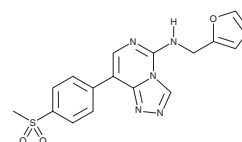
An inhibitor of SMYD2



EED226

Item No. 22031

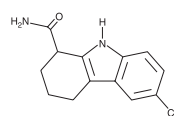
A potent and allosteric inhibitor of PRC2



EX-527

Item No. 10009798

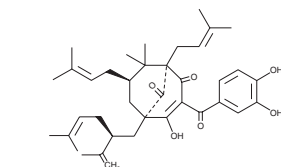
An inhibitor of SIRT1



Garcinol

Item No. 10566

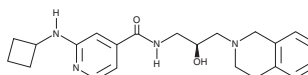
An inhibitor of histone acetyltransferases



GSK591

Item No. 18354

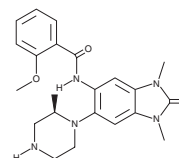
A chemical probe for PRMT5



GSK6853

Item No. 20985

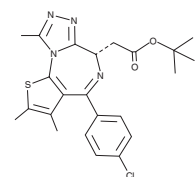
A selective chemical probe for the bromodomain of BRPF1



(+)-JQ1

Item No. 11187

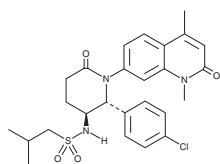
A select inhibitor of BET bromodomains



LP99

Item No. 17661

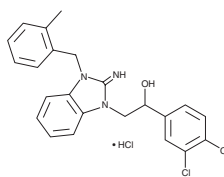
A selective inhibitor of BRD7/9



MS351

Item No. 19549

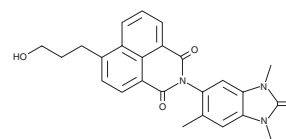
An antagonist of CBX7



BAY-299

Item No. 19777

A potent and selective BRD1 inhibitor



SGC Probe Set

Item No. 17748

- Library of probes developed by the Structural Genomics Consortium
- Contains >20 inhibitors/antagonists of epigenetic readers, writers, and erasers
- Designed for pre-clinical target validation

Epigenetics Screening Library (96-Well)

Item No. 11076

- Contains >140 small molecules
- Includes compounds that modulate the activity of methyltransferases, demethylases, HATs, HDACs, and acetylated lysine reader proteins

Chromatin Reader Domain TR-FRET Assay Kits

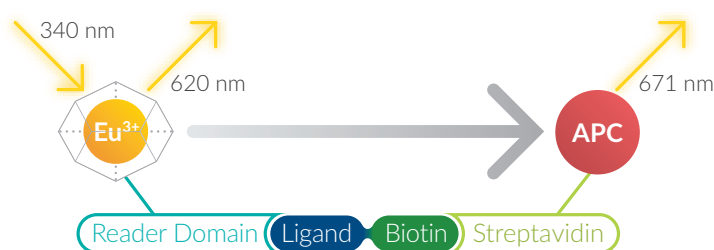
| Item No. | Product Name |
|----------|---|
| 600500 | BRD2 bromodomain 1 TR-FRET Assay Kit |
| 600510 | BRD2 bromodomain 2 TR-FRET Assay Kit |
| 600630 | BRD3 bromodomain 1 TR-FRET Assay Kit |
| 600640 | BRD3 bromodomain 2 TR-FRET Assay Kit |
| 600520 | BRD4 bromodomain 1 TR-FRET Assay Kit |
| 600530 | BRD4 bromodomain 2 TR-FRET Assay Kit |
| 600830 | BRD4 bromodomains 1 and 2 TR-FRET Assay Kit |
| 600650 | BRDT bromodomain 1 TR-FRET Assay Kit |
| 600850 | CBP bromodomain TR-FRET Assay Kit |
| 601030 | L3MBTL1 MBT Domains TR-FRET Assay Kit |

Common chromatin reader domain TR-FRET assays listed, over 15 available online

Additional Assay Kits

| Item No. | Product Name |
|----------|--|
| 589324 | DNA Methylation ELISA Kit |
| 600150 | HDAC Cell-Based Activity Assay Kit |
| 10011563 | HDAC Fluorometric Activity Assay Kit |
| 10011564 | HDAC1 Inhibitor Screening Assay Kit |
| 700120 | LSD1 Inhibitor Screening Assay Kit |
| 700140 | Methyltransferase Colorimetric Assay Kit |
| 700150 | Methyltransferase Fluorometric Assay Kit |
| 600490 | SET7/9 SAM-Screener™ Assay Kit |
| 10010401 | SIRT1 Direct Fluorescent Screening Assay Kit |
| 10011566 | SIRT3 Direct Fluorescent Screening Assay Kit |

Common epigenetic assays listed, over 40 available online



TR-FRET assay formats are suited to the rapid characterization of ligands for SAR studies of epigenetic compounds in a high-throughput format.

Proteins

| Item No. | Product Name |
|----------|--|
| 11720 | BRD4 bromodomain 1 (human recombinant; His-tagged) |
| 10009231 | HDAC1 (human recombinant) |
| 10009465 | HDAC6 (human recombinant) |
| 10263 | Histone H3 (human recombinant) |
| 10264 | Histone H4 (human recombinant) |
| 10336 | JMJD2A (human recombinant) |
| 10500 | PAD4 (human recombinant) |
| 10009115 | PCAF Histone Acetyltransferase |
| 10011191 | SIRT2 (human recombinant) |
| 10011194 | SIRT3 (human recombinant) |
| 10315 | SIRT6 (human recombinant) |
| 10783 | TIP60 (human recombinant) |

Common epigenetic proteins listed, over 120 available online

Antibodies

| Item No. | Product Name |
|----------|---|
| 10010567 | Acetyl Lysine Monoclonal Antibody (Clone 7F8) |
| 20723 | Anti-5-hydroxy Methylcytosine Rabbit Monoclonal Antibody (Clone RM236) |
| 20722 | Anti-5-methyl Cytosine Rabbit Monoclonal Antibody (Clone RM231) |
| 20718 | Anti-trimethyl Histone H3 (Lys4) Rabbit Monoclonal Antibody (Clone RM137) |
| 13479 | DNA Methyltransferase 1 Monoclonal Antibody (Clone 60B1220.1) |
| 17939 | Histone H3 (Citullinated R2 + R8 + R17) Monoclonal Antibody |
| 14701 | JARID1B/PLU1 (C-Term) Polyclonal Antibody |
| 10382 | JMJD2A Polyclonal Antibody |
| 10383 | JMJD2D Polyclonal Antibody |
| 13728 | Methylated Lysine Polyclonal Antibody-biotin |
| 13780 | SET7/9 (FL) Polyclonal Antibody |

Common epigenetic antibodies listed, over 60 available online

View our complete list of Epigenetic Research Tools
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