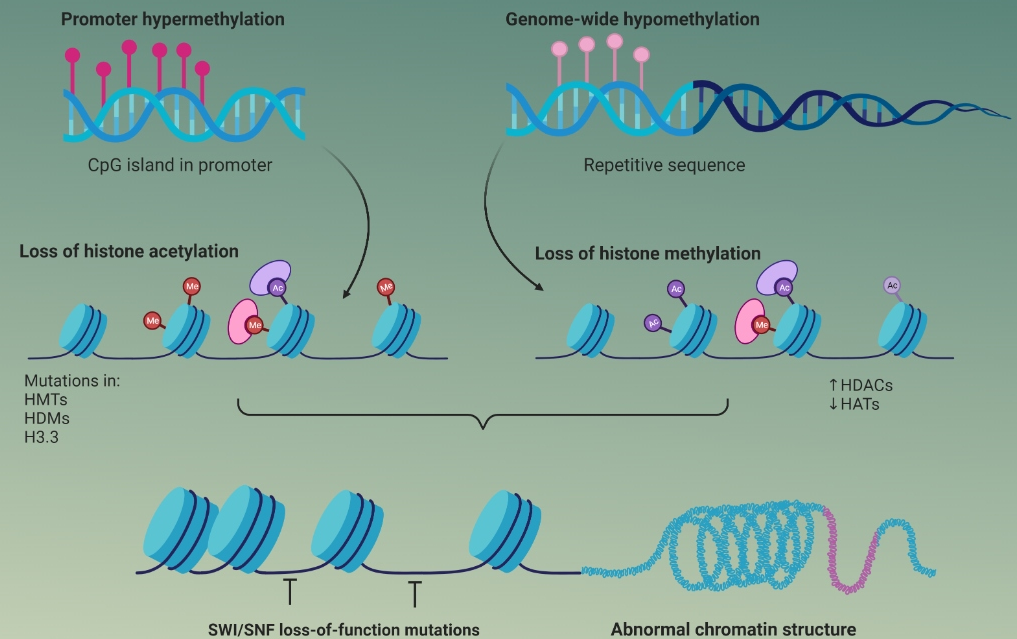


Epigenetics Related Ligands

Cancer epigenetics is the study of epigenetic changes to the DNA of cancer cells. These changes provide a way for cells to control and regulate gene activity without changing the genes permanently. Epigenetic control relies on small, reversible, changes to the DNA and proteins such as: DNA methylation, changes in the structure of histone proteins or gene regulation by small noncoding microRNAs. Controlling epigenetic changes may provide us with helpful tools for cancer prevention, detection, and therapy.

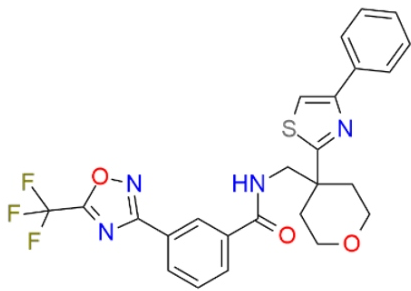
Epigenetics in Cancer Ligands Library contains 367 small ligands, some representative molecules are given below: TMP269, HDAC inhibitor; XD14, BDR inhibitor; KDM5-IN-1, KDM5 inhibitor; Progesterone, Progesterone receptor agonist.

Related terms: *poly(ADP-ribose) polymerase, histone deacetylase, tankyrase, aurora kinase, bromodomain, nuclear receptor coactivator*

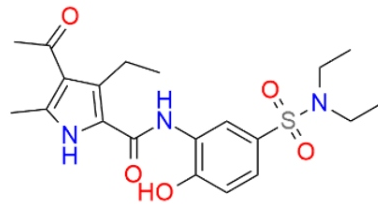


Epigenetic process in cancer (Created by BioRender.com)

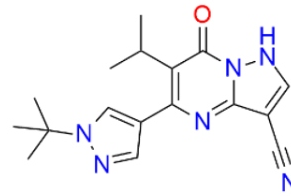
Highlights



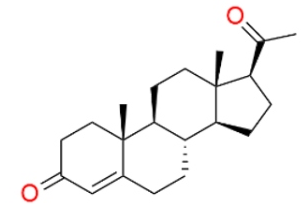
EBC-12824
CAS: 1314890-29-3
TMP269, HDAC inhibitor



EBC-08691
CAS: 1370888-71-3
XD14, BDR inhibitor



EBC-09069
CAS: 1628210-26-3
KDM5-IN-1, KDM5 inhibitor



EBC-06111
CAS: 57-83-0
Progesterone, Progesterone
receptor agonist

Library Composition

Name	Occurrence in the library, times
poly(ADP-ribose) polymerase 1	34
histone deacetylase 1	22
histone deacetylase 6	20
histone deacetylase 8	19
histone deacetylase 3	18
histone deacetylase 2	15
tankyrase 2	11
histone deacetylase 5	10
histone deacetylase 7	10
tankyrase	9
aurora kinase A	8

histone deacetylase 9	—	8
histone deacetylase 4	—	7
bromodomain and PHD finger containing 1	—	7
bromodomain containing 2	—	6
E1A binding protein p300	—	6
nuclear receptor coactivator 1	—	5
histone deacetylase 10	—	4
histone deacetylase 11	—	4
bromodomain testis associated	—	4
poly(ADP-ribose) polymerase 2	—	4
aurora kinase B	•	3
phosphatase and tensin homolog	•	3
CREB binding protein	•	3

aurora kinase C	•	2
nuclear receptor coactivator 3	•	2
sirtuin 2	•	2
DNA methyltransferase 1	•	2
lysine demethylase 4D	•	2
TATA-box binding protein associated factor 1	•	2
nuclear receptor coactivator 2	•	1
protein tyrosine phosphatase non-receptor type 22	•	1
DNA (cytosine-5-)-methyltransferase 3 α	•	1
lysine demethylase 3A	•	1
poly (ADP-ribose) polymerase 3	•	1
lysine demethylase 4E	•	1
jumonji domain containing 6, arginine demethylase and lysine hydroxylase	•	1

lysine demethylase 5B

•

1

sirtuin 1

•

1

lysine demethylase 1A

•

1