

Table S1

Small Molecule	Class of Targets	Target Developed Against	IC20 or the highest dose tested in PEO1 (μM)	IC20 or the highest dose tested in OVCAR3 (μM)
IOX2	2OG	PHD2	0.0251	20
SGC-CBP30	Bromodomains	CREBBP, EP300	1	7.079
I-CBP112	Bromodomains	CREBBP, EP300	20	20
JQ1	Bromodomains	BRD2, BRD3, BRD4, BRDT (BET)	0.1995	0.05
Bromosporine	Bromodomains	pan-Bromodomain	1.2589	0.794
GSK2801	Bromodomains	BAZ2A, BAZ2B	7.9433	7.943
PFI-1	Bromodomains	BRD2, BRD3, BRD4, BRDT (BET)	20	2.512
PFI-3	Bromodomains	SMARCA, PB1	20	20
C646	Histone Acetyltransferase	p300	0.7943	1
LAQ824	Histone Deacetylase	HDAC	0.001	0.001
CI-994	Histone Deacetylase	HDAC1	0.3162	6.31
SGC0946	Histone Methyltransferase	DOT1L	19.9526	19.953
LLY-507	Histone Methyltransferase	SMYD2	1.9953	1.585
UNC1999	Histone Methyltransferase	EZH2	3.1623	1.585
UNC0642	Histone Methyltransferase	G9a, GLP	12.5893	8.913
GSK343	Histone Methyltransferase	EZH2	5.0119	3.981
UNC0638	Histone Methyltransferase	G9a, GLP	14.1254	12.589
PFI-2	Histone Methyltransferase	SETD7	20	20
GSK J4	Histone Methyltransferase	JMJD3, UTX	1.5849	0.562
A-366	Histone Methyltransferase	G9a, GLP	20	20
GSK-LSD1	Histone Lysine Demethylase	LSD1	20	20
IOX1	Histone Lysine Demethylase	pan-2-OG	12.5893	15.849
UNC1215	Methyl Lysine Binder	L3MBTL3	19.9526	20
Olaparib	PARP	PARP1	1.7783	20