

## Supplementary Data

Table 1. H1.4 Phosphorylation<sup>a</sup>

H1.4 Isoform	No Treatment	48hr Dex	10uM CVT313	25uM CVT313	2.5uM CGP74514
0 PO4	39% (0.040)	83% (0.041)	85% (0.052)	36% (0.050)	76% (0.048)
1 PO4	34% (0.029)	11% (0.041)	15% (0.052)	4% (0.050)	19% (0.024)
2 PO4	18% (0.026)				4% (0.027)
3 PO4	8% (0.022)				

<sup>a</sup> Relative Percentage of Each Isoform with standard deviation in parenthesis ( $n \geq 6$ ).

Table 2. H1.2 Phosphorylation<sup>a</sup>

H1.2 Isoform	No Treatment	48hr Dex	10uM CVT313	25uM CVT313	2.5uM CGP74514
0 PO4	58% (0.070)	85% (0.048)	84% (0.070)	93% (0.059)	80% (0.038)
1 PO4	34% (0.033)	15% (0.048)	16% (0.070)	8% (0.059)	20% (0.038)
2 PO4	8% (0.054)				

<sup>a</sup> Relative Percentage of Each Isoform with standard deviation in parenthesis ( $n \geq 6$ ).

Table 3. Total H1.2 and H1.4 Phosphorylation<sup>a</sup>

Histone	No Treatment	48hr Dex	10uM CVT313	25uM CVT313	2.5uM CGP74514
Total H1.4 PO4	60%	11%	15%	4%	23%
Total H1.2 PO4	42%	15%	16%	8%	20%

<sup>a</sup> Total percentage of phosphorylated isoforms ( $n \geq 6$ ).

Table 4. Ratio of Phosphorylated Isoforms to Total Isoforms and Normalized to No Treatment<sup>a</sup>

Histone	No Treatment	48hr Dex	10uM CVT313	25uM CVT313	2.5uM CGP74514
Total H1.4 PO4	1	0.18	0.25	0.07	0.38
Total H1.2 PO4	1	0.36	0.38	0.19	0.48

<sup>a</sup> Ratio of phosphorylated isoforms/total isoforms and normalized to 1 for no treatment ( $n \geq 6$ ).