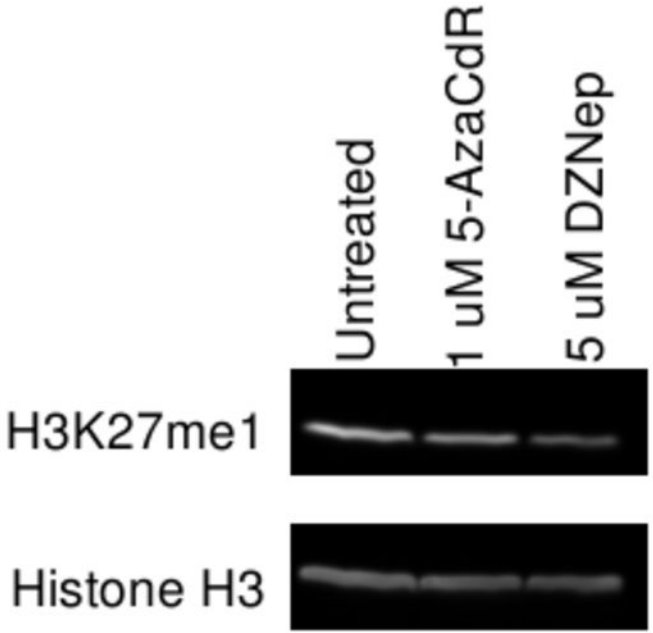Miranda Supplemental Figure 1