



Supplementary Figure 2. PCI-34051 potently inhibits *in vitro* deacetylation of a peptide corresponding to acetylated ARID1A catalyzed by HDAC8. The value of the inhibition constant (K_i) for PCI-34051 was measured from the dependence of the deacetylation activity at various inhibitor concentrations measuring the formation of acetate using an enzyme-coupled assay. The reaction contained recombinant Zn(II)-HDAC8 (5 nM) and Ac-KLISKacFDKL-NH₂ (peptide corresponding to ARID1A, 100 μ M) in assay buffer (2.7 mM KCl, 137 mM NaCl, 50 mM HEPES, pH 7.8, 0.001% BSA, 0.001% Tween 20).