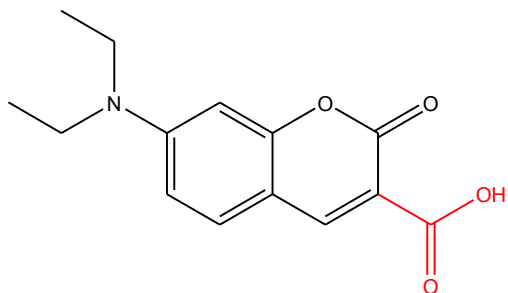
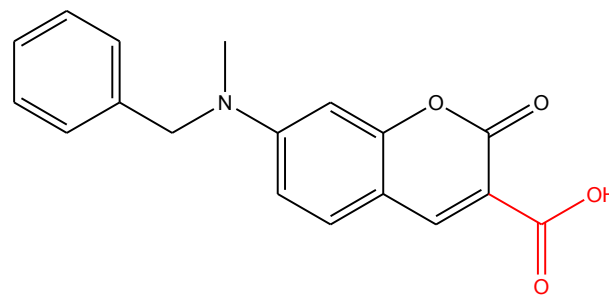


Supplementary Figure 1.

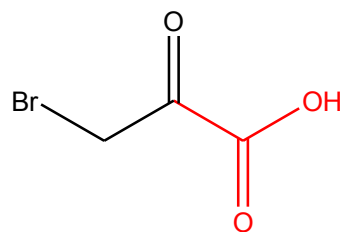
Chemical structures of 7ACC compounds;
3-bromopyruvate and the AR-C155858
compound.



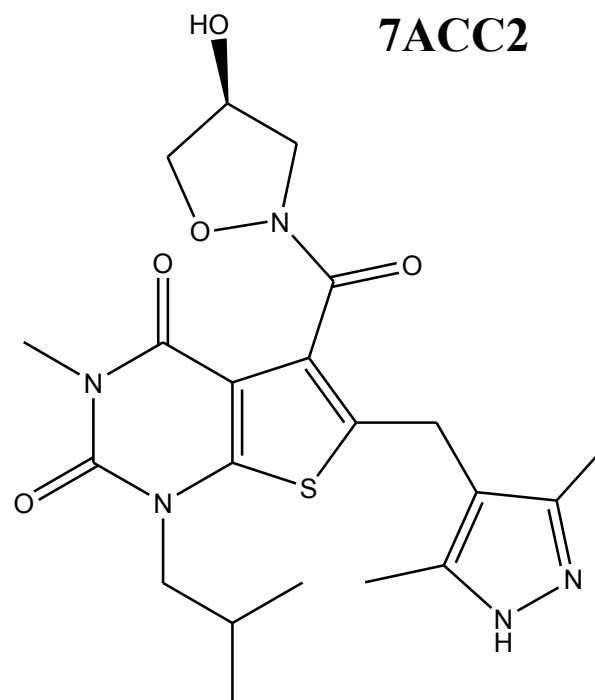
7ACC1



7ACC2



3-Bromopyruvate

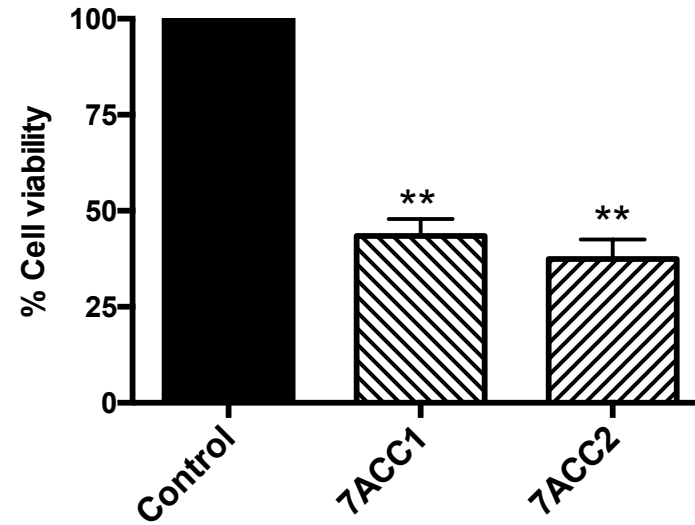


AR-C155858

Supplementary Figure 2.

Effect of 7ACC compounds (10 μ M , 72h)
on the viability of FaDu cancer cells,
expressed as % of viability of untreated cells.

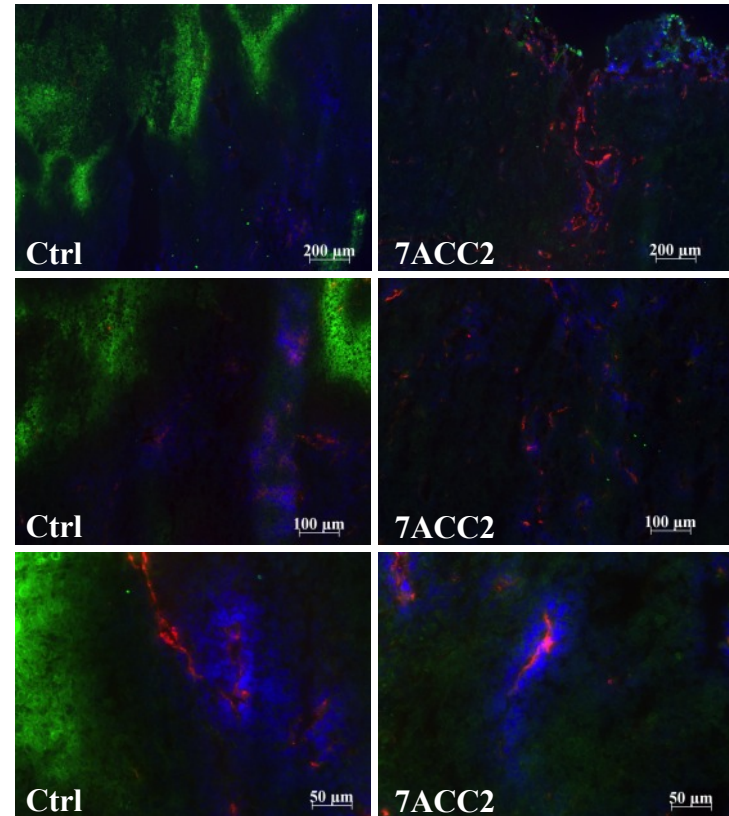
**P<0.01, n=3.



Supplementary Figure 3.

Tumor hypoxia and perfusion are probed with pimonidazole (green) and Hoechst (blue) staining of tumor cryo-sections from SiHa xenografts, respectively; tumor vasculature is also immunolabelled with anti-CD31 antibodies (red).

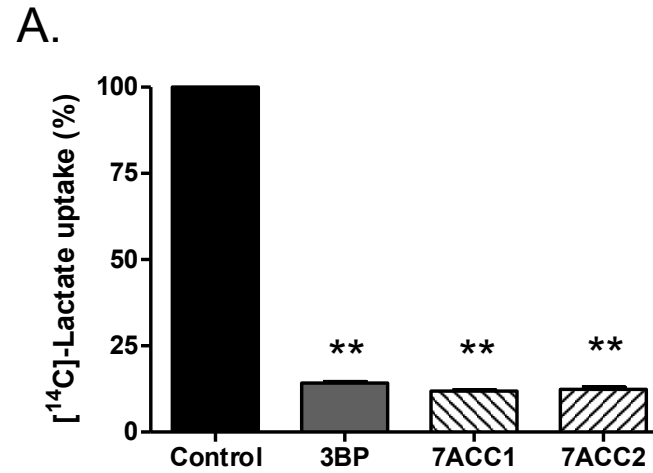
Mice were daily treated with vehicle or 7ACC2 and injected intravenously with pimonidazole (60 mg/kg) and Hoechst33342 (15 mg/kg) 2h and 2 min respectively before sacrifice and tumor excision.



Pimonidazole/CD31/Hoechst 33342

Supplementary Figure 4.

A. Effects of 100 μM 3-bromopyruvate (3BP) and 7ACC compounds on [^{14}C]-lactate uptake determined in SiHa cells. Data are expressed as % of the uptake measured in the presence of vehicle (control); ** $P < 0.01$, $n = 3$.



B. Effects of 7ACC compounds (1 μM) on lactate uptake by SiHa cells in the presence of increasing concentrations of extracellular lactate. Data are expressed as % of the uptake measured in the presence of vehicle (control); *** $P < 0.001$; ** $P < 0.01$, $n = 3$.

