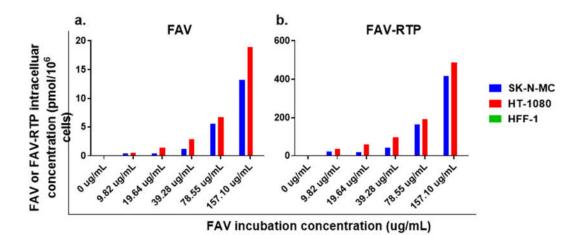




## Supplemental material

FAV Triphosphate Assay

HT-1080, SK-N-MC, and HFF-1 cells were treated with various concentrations of FAV ranging from 0 to 157.10 µg/ml for one day. Cells were harvested and separated from drug containing medium by centrifugation and washed twice with PBS to ensure removal of extracellular FAV. FAV and FAV-RTP were quantified via LC-MS/MS. Our system consisted of a 1260 HPLC (Agilent) and a 6460 triple quadrupole mass spectrometer (Agilent). Protein precipitation was achieved by Trichloroacetic acid (TCA). The supernatant was obtained by centrifugation and NH4OH was used to adjust the pH to a weak base. The FAV was analyzed using a Kinetex 2.6  $\mu$ m Polar C18 LC column, 50 × 2.1mm. Mobile phases consisted of 0.1% Formic acid in water (A) and methanol (B) at a flow rate of 0.4 ml/min in gradient mode. The FAV-RTP was analyzed using a hypercarb 5  $\mu$ m LC column, 50 × 4.6mm. Mobile phases consisted of 0.1% NH4OH in water (A) and ACN/IPA (1:3) (B) at a flow rate of 0.4 ml/min in gradient mode. The mass transition (MRM) of FAV m/z 156  $\rightarrow$  113 in positive ion mode, and FAV-RTP m/z 528  $\rightarrow$  159 in negative ion mode.



Supplemental Figure 1: Intracellular concentrations of FAV (a) and FAV-RTP (b) in HT-1080, SK-N-MC, and HFF-1 cells. Cells were incubated with increasing concentrations of FAV ranging from 0 to 157.1  $\mu$ g/ml for one day then extracellular FAV was removed and intracellular FAV and FAV-RTP concentrations were quantified via LC-MS/MS.