

Figure S1

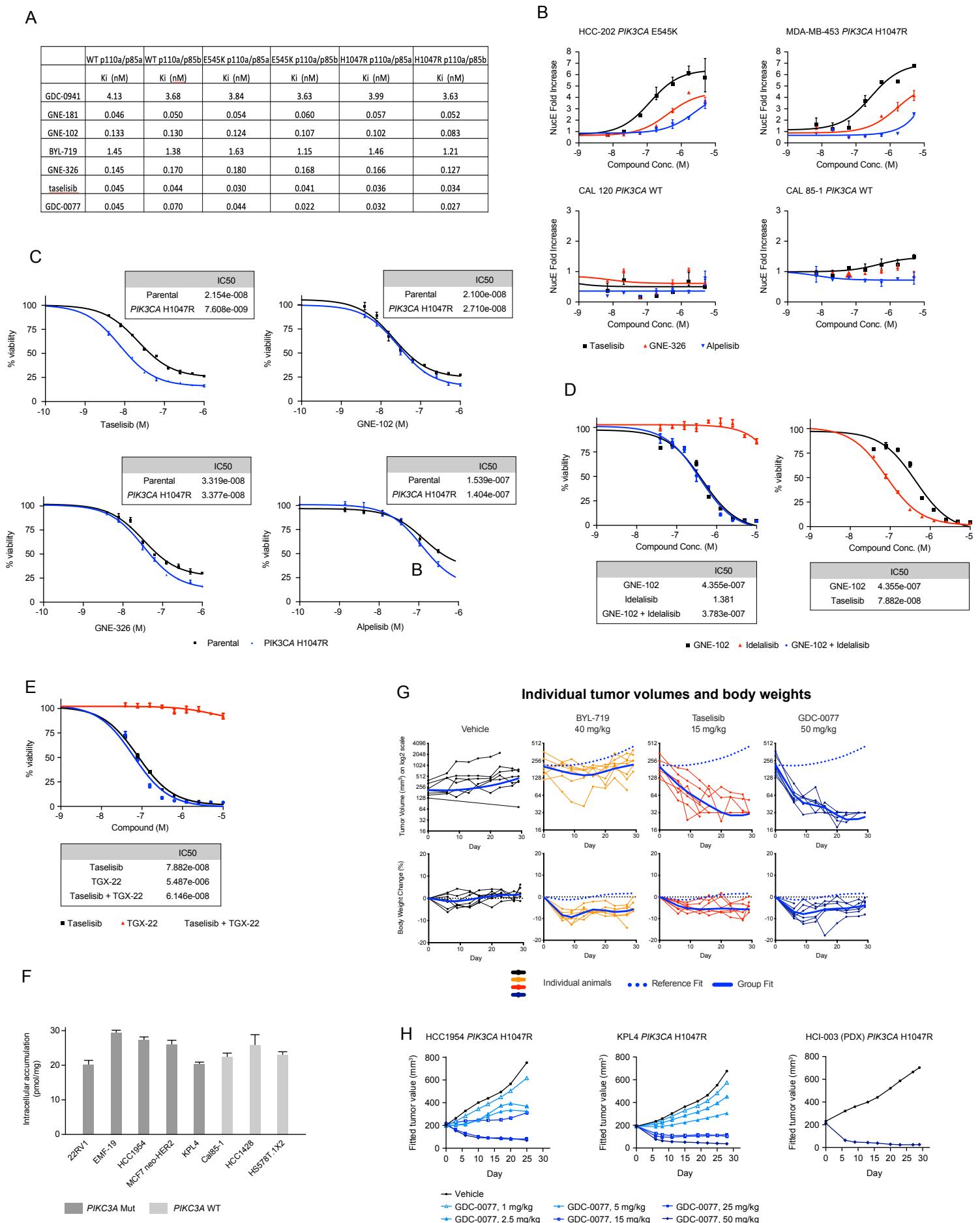


Figure S1

Taselisib and GDC-0077 have increased potency in PIK3CA-mutant cancer cells

- (A) p110a WT and mutant KI. Inhibition of ATP-hydrolysis by PI3K isoforms in a biochemical assay, ADP production measured by ADP-Glo™. bPlasma protein binding determined by equilibrium dialysis. Ki's were determined based on IC₅₀ values using the Morrison equation using experimentally determined ATP Km's for each construct.
- (B) PI3K inhibitors assessed for cytostasis in mutant and wild-type breast cancer cell lines in 72 hour Nucleosome ELISA. Error bars are standard deviation of triplicates.
- (C) Cell potency in 4-day CellTiter-Glo® viability assay for taselisib and PI3K α inhibitors BYL719, GNE-102, GNE-326 in SW48 isogenic H1047R and wild-type cells. Error bars are standard deviation of triplicates.
- (D) Combination of PI3K α inhibitor GNE-102 with PI3K δ inhibitor idelalisib in 4-day viability assay in HCC1954 PIK3CA H1047R mutant cells. Error bars are standard deviation of quadruplicates.
- (E) Combination of taselisib with PI3K β inhibitor TGX-221 in HCC1954 PIK3CA H1047R mutant cells in a 4-day viability assay. Error bars are standard deviation of quadruples.
- (F) Intracellular drug concentrations of taselisib in cancer cell lines treated for 18 hours with 1 μ M taselisib. Results of LC/MS/MS for triplicate wells are shown. Error bars are standard deviation of triplicates.
- (G) Individual animal data with fits of taselisib, GDC-0077, and BYL719 in HCC1954 PIK3CA H1047R breast cancer xenograft model.
- (H) In vivo efficacy of GDC-0077 in PIK3CA H1047R breast cancer xenograft HCC1954 and KPL4 models, and breast cancer HCl003 PDX (patient-derived xenograft) model. GDC-0077 dosed orally and daily (QD) in MCT (0.5 % methycellulose/0.2% Tween-80) vehicle.