**Title:** Supplementary Figure 6  
**Caption:** Combinational effects of BEZ235 and MEK inhibitor ARRY-142886 in SW1353 cells with NRAS mutation

A. Sequencing was performed with forward or reverse sequencing primer. The top chromatogram is the mutant sequence of NRAS in SW1353 cells, and the bottom is a wild-type sequence.

B. Effects of MEK inhibitor ARRY-142886 on MAPK phosphorylation evaluated by immunoblot at 1 hr.

C. Effects of combination treatment with BEZ235 and ARRY-142886 on the signaling of PI3K/mTOR pathway and MAPK pathway analyzed by immunoblot at 24 hr in SW1353 cells.

D. Effects of combination treatment with BEZ235 and ARRY-142886 on cell viability evaluated by CellTiter-Glo cell viability assay at 72 hr in SW1353 cells.

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**A.**  
Sequencing with reverse sequencing primer  
Sequencing with forward sequencing primer  

**B.**  
Arrangement of BEZ235 and ARRY-142886 (nM)  
IB: p-MAPK (T202/Y204)  
IB: p42 MAPK

**C.**  
Arrangement of BEZ235 and ARRY-142886 (nM)  
IB: p-MAPK (T202/Y204)  
IB: p42 MAPK  
IB: p-AKT (T308)  
IB: p-AKT (S473)  
IB: AKT  
IB: p-S6 (S235/236)  
IB: S6  
IB: p-4EBP1 (T37/46)  
IB: p-4EBP1 (S65)  
IB: p-4EBP1 (T70)  
IB: 4EBP1  
IB: α-Tubulin

**D.**  
Graph showing relative cell number.