Supplemental Material

Supplementary Table 1 - PCR primers used in this study

Supplementary Table 2 – Quantification of eiF2α phosphorylation upon sorafenib treatment. X-ray film were quantified using scanning densitometry and data are represented as arbitrary units ± SD.

Figure S1. (A) Quantification of Xbp1 mRNA splicing shown in Figure 2A. (B) Wild-type HepG2 cells were either not treated or treated with 10 μM Sorafenib for 2 h followed by staining for giantin, a Golgi complex marker, α-tubulin, as a marker for the microtubules and Hoechst 33342 as a nuclear marker. (C) Cells treated as above were immunostained against giantin and phalloidin was used to stain the actin cytoskeleton. Images were acquired by wide-field fluorescence microscopy. Scale bars correspond to 25 μm.

Figure S2. (A) HepG2 cells were either not treated or treated with 10 μM Sorafenib for 4 h, after which they were either fixed or Sorafenib removed from cells and fresh medium added for a further 2 h. Cells were then stained with anti Giantin (green). Scale bars correspond to 25 μm. (B) The number of cells containing fragmented Golgi complex was quantified. Between 200 and 400 cells were analyzed for each condition and results are represented as the means ± SD. Student's t-test *: $p < 0.03$, compared to control, #: $p < 0.03$ HepG2 mock transfected compared to IRE1-DN transfected cells.