

SUPPLEMENTAL FIGURE LEGENDS

Supplemental Figure 1. *Palmitoleate (PO) attenuates palmitate (PA) mediated apoptosis in dose dependent manner.* (A) Huh-7 cells were treated with either vehicle, 800 μ M palmitic acid (PA) together with 0-400 μ M PO, or 400 μ M PO alone for 24 hours. Apoptosis was assessed by morphological criteria after DAPI staining. Error bars depict \pm SEM from 3 independent experiments, **each performed in triplicate.**

Supplemental Figure 2. *PO attenuates stearic (SA) acid mediated apoptosis and caspase 3/7 activity.* (A) Cells were treated with either vehicle, 800 μ M SA, 800 μ M SA with 400 μ M PO, or 400 μ M PO alone for 24 hours. Apoptosis was assessed by morphological criteria after DAPI staining. Error bars depict \pm SEM from 3 or more independent experiments, **each performed in triplicate.** (B) After Huh-7 cells were treated as (A), activity of effector caspases 3 and 7 was measured by a fluorogenic assay. Data are expressed as fold-increase of relative fluorescence units (RFLU) over control value (untreated cells), which was arbitrarily set to 1, and represent the mean \pm SEM from 3 independent experiments, **each performed in triplicate.** * $p < 0.05$, PA treated cells vs PA and PO treated cells.

Supplemental Figure 3. *PO inhibits PA induced induction of GADD34.* Huh-7 cells were incubated with either vehicle (Veh), 800 μ M palmitate (PA), 800 μ M PA plus 400 μ M PO, or 400 μ M PO alone for 8 hours. GADD34 mRNA was quantified by real time PCR. Fold induction was determined by normalization to 18 S. Data represent the mean and error of 3 independent experiments, **each performed in triplicate.** * $p < 0.05$, PA treated cells vs PA plus PO treated cells.

Supplemental figure 4. *PO does not attenuate thapsigargin induced CHOP induction.* In the left panel, Huh-7 cells were treated with vehicle (Veh), 500 μ M thapsigargin (Tg), 400 μ M PO plus thapsigargin, or PO alone. In right panel, Huh-7 cells were treated with vehicle, 10 μ g/ml tunicamycin (Tm), 400 μ M PO plus tunicamycin, or PO alone. CHOP mRNA was quantified by real time PCR. Fold induction was determined by normalization to 18S. Data represent the mean \pm SEM of 3 independent experiments, **each performed in triplicate.**