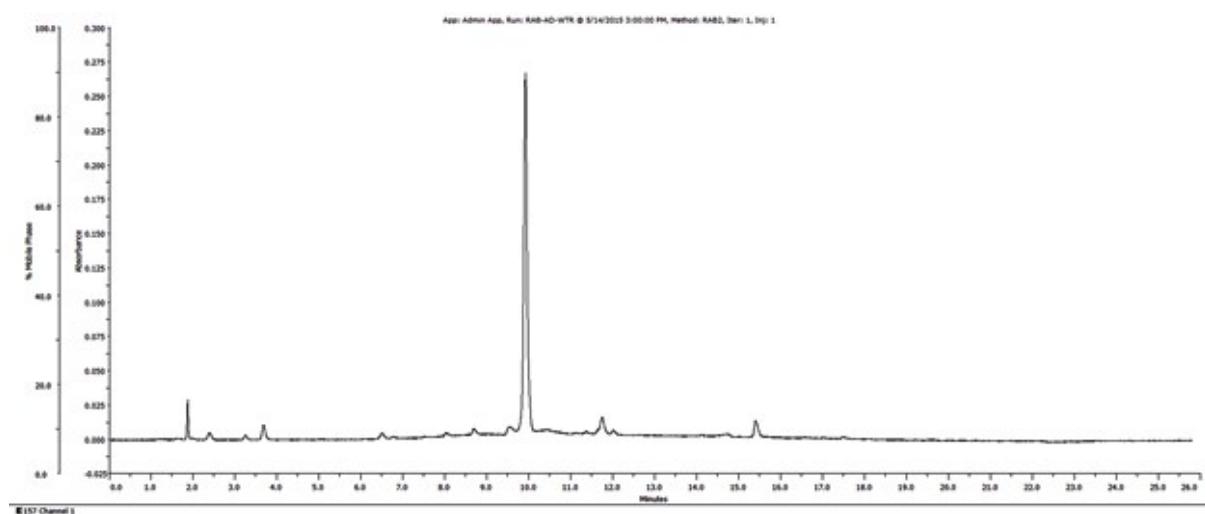
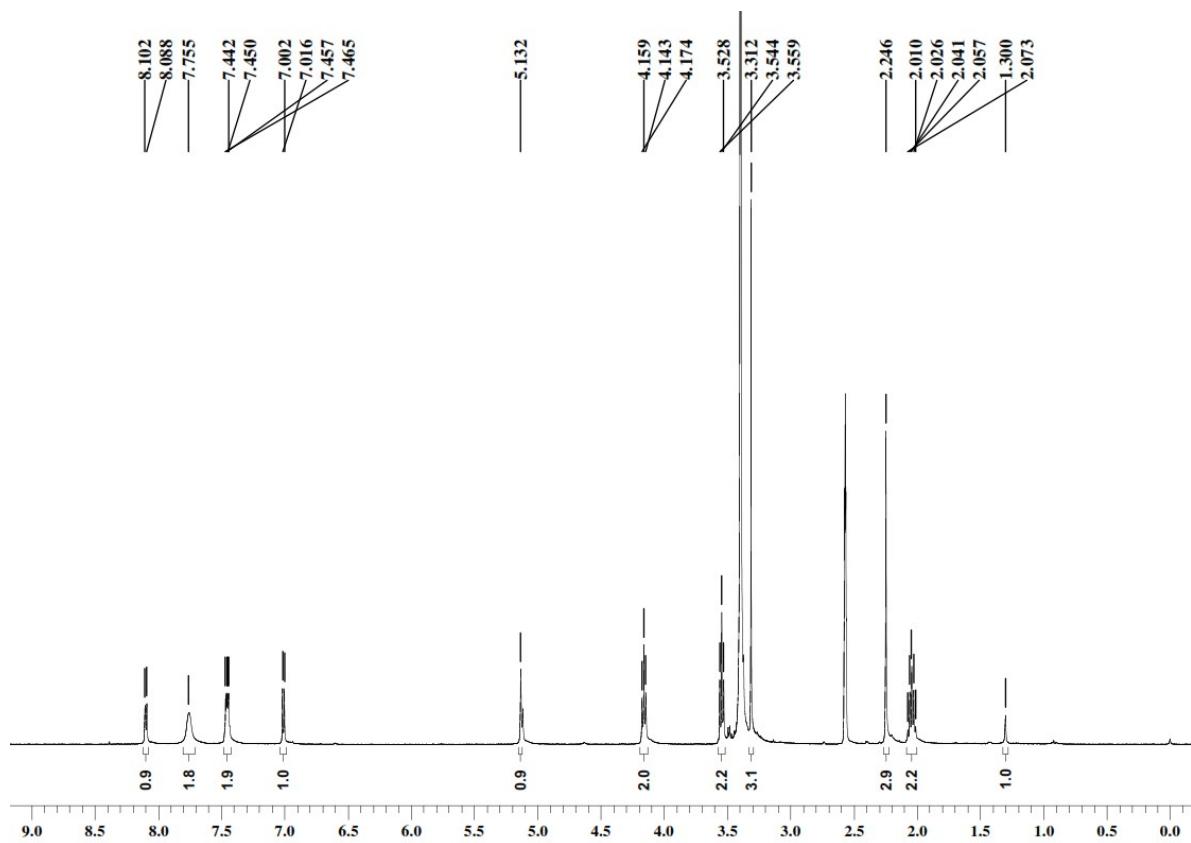


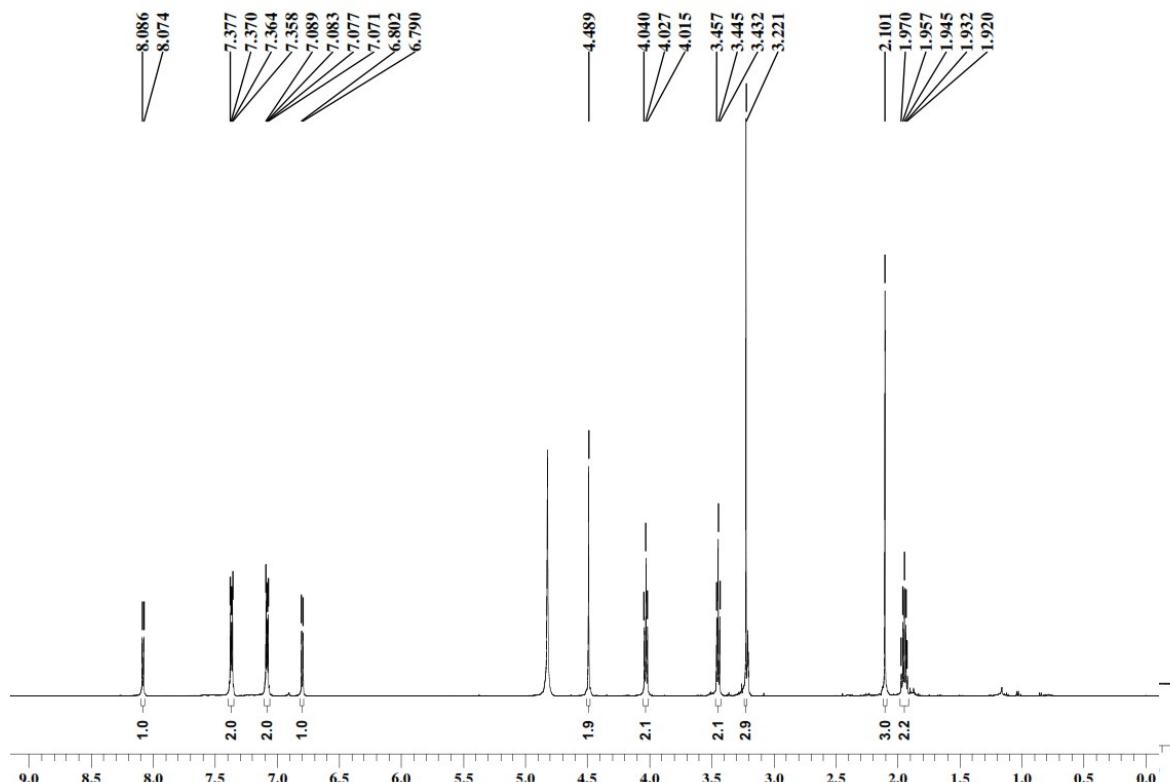
**Figure S1.** Semi preparative HPLC Chromatogram of acid degradation solution



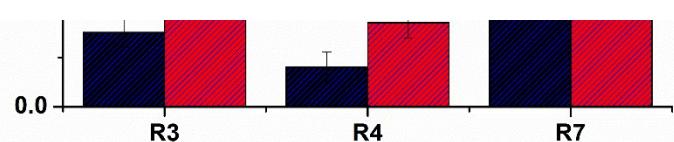
**Figure S2.** Semi preparative HPLC Chromatogram of oxidative degradation solution



**Figure S3.**  $^1\text{H}$  NMR of acid degradation compound **R3**



**Figure S5.**  $^1\text{H}$  NMR of oxidative degradation compound **R7**



**Figure S4.**  $^1\text{H}$  NMR of acid degradation compound **R4**

**Figure S6.** IC<sub>50</sub> of **R3, R4** and **R7** on HepG2 and PANC-1 cell lines

**Table S1.** Data of intra-day and inter-day precision studies (n=3).

| Concentration<br>( $\mu\text{g/ml}$ ) | Intra-day Precision   | Inter-day Precision   |
|---------------------------------------|---|---|
|                                       | Measured concentration<br>( $\mu\text{g mL}^{-1}$ ) SD; RSD (%) | Measured concentration<br>( $\mu\text{g mL}^{-1}$ ) SD; RSD (%) |
| 30                                    | 29.95 $\pm$ 0.017;0.06  | 29.88 $\pm$ 0.073;0.24  |
| 50                                    | 50.01 $\pm$ 0.011;0.02  | 49.89 $\pm$ 0.115;0.23  |
| 60                                    | 60.05 $\pm$ 0.005;0.01  | 59.92 $\pm$ 0.130;0.22  |

**Table S2.** Recovery Data for metoprolol spiked into a mixture of stressed samples.

| Spiked Concentration<br>( $\mu\text{g/ml}$ ) | Calculated spiked concentration<br>( $\text{ng mL}^{-1}$ ) SD; RSD (%) | Recovery<br>(%) |
|--|--|-----------------|
| 25   | 24.94 $\pm$ 0.042;0.17   | 99.76           |
| 30   | 29.96 $\pm$ 0.064;0.21   | 99.86           |
| 35   | 35.02 $\pm$ 0.035;0.09   | 100.06          |