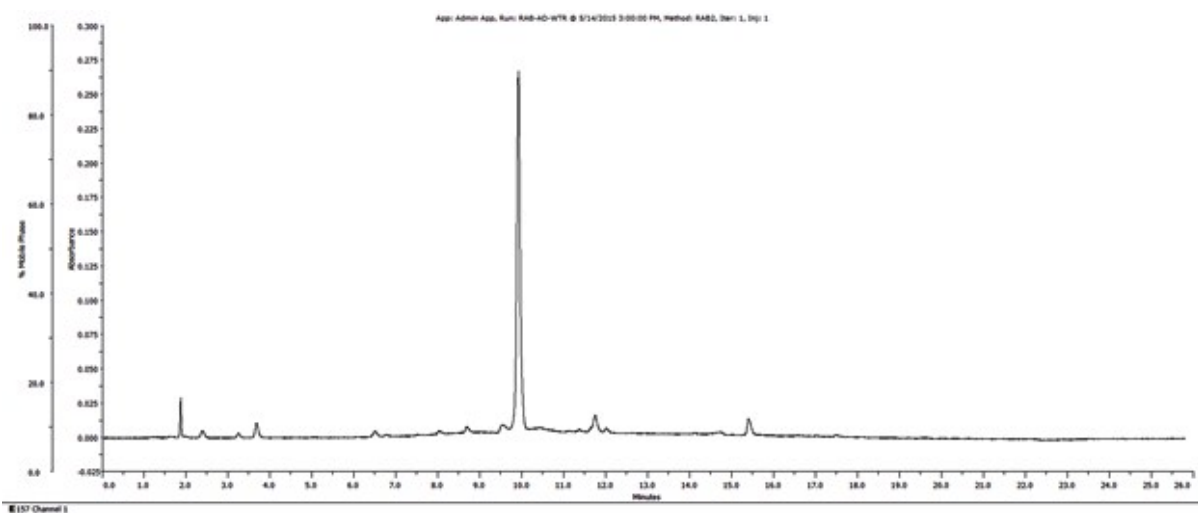


**Figure S1.** Semi preparative HPLC Chromatogram of acid degradation solution



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

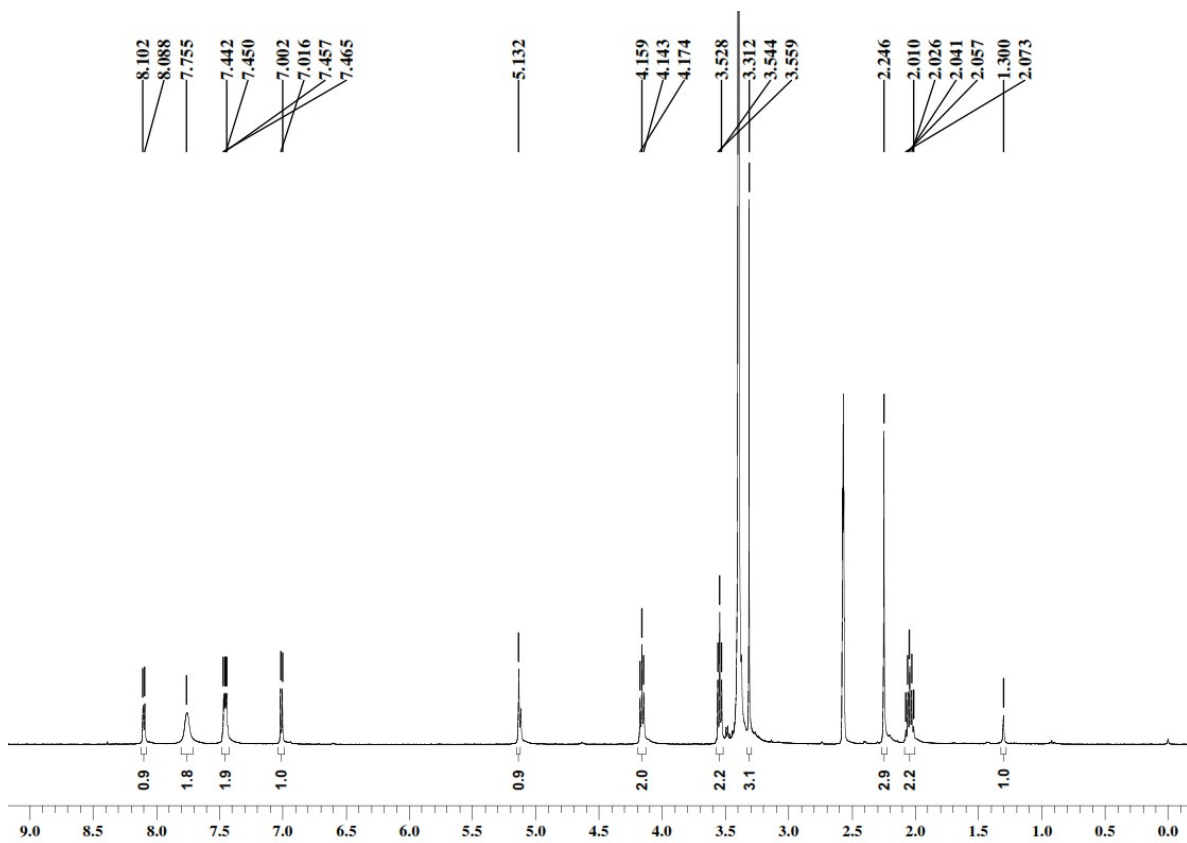


Figure S3.  $^1\text{H}$  NMR of acid degradation compound R3

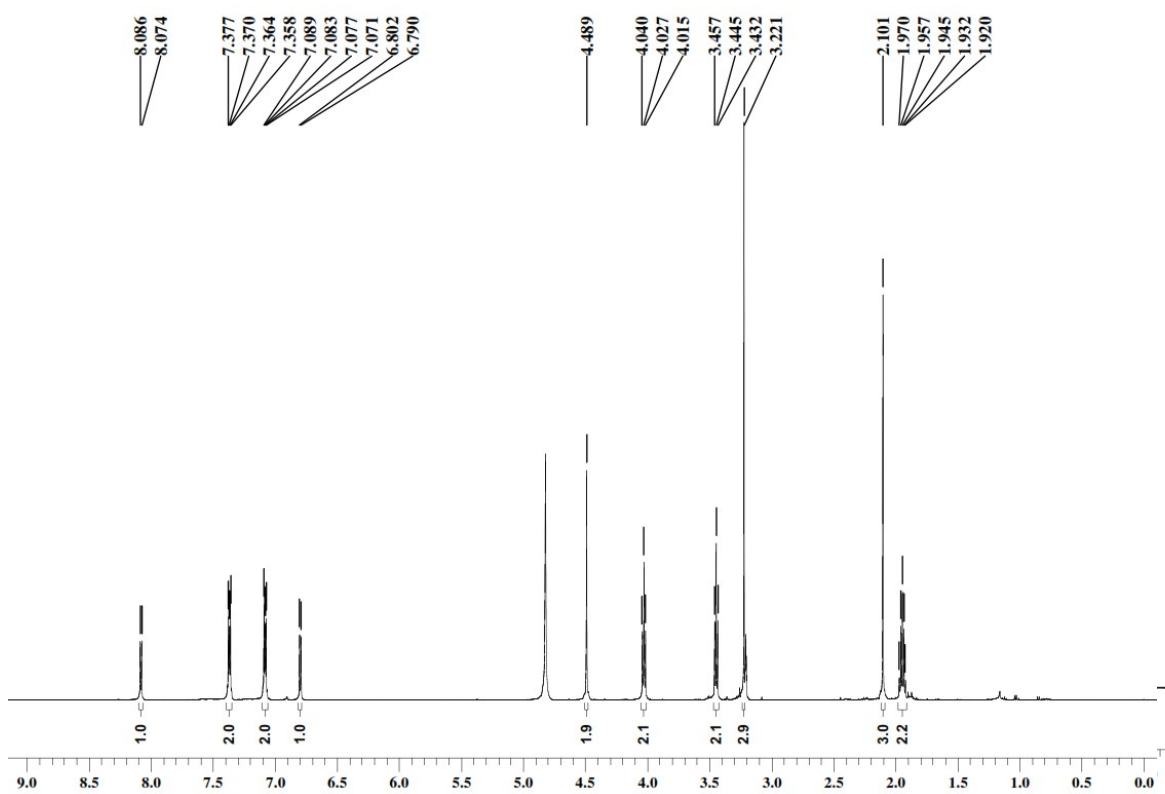


Figure S5.  $^1\text{H}$  NMR of oxidative degradation compound R7

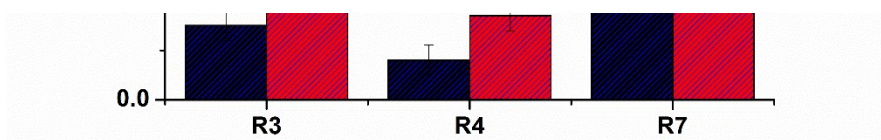


Figure S4.  $^1\text{H}$  NMR of acid degradation compound R4

**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).

<b>Concentration (<math>\mu\text{g/ml}</math>)</b>	<b>Intra-day Precision</b>	<b>Inter-day Precision</b>
	Measured concentration ( $\mu\text{g mL}^{-1}$ ) SD; RSD (%)	Measured concentration ( $\mu\text{g mL}^{-1}$ ) 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.

<b>Spiked Concentration (<math>\mu\text{g/ml}</math>)</b>	<b>Calculated spiked concentration (<math>\text{ng mL}^{-1}</math>) SD; RSD (%)</b>	<b>Recovery (%)</b>
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