

**Supplementary material**

**Characterization of a Lipid Hydroperoxide-Derived RNA-Adduct in Rat  
Intestinal Epithelial Cells**

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### Supplementary Figure Legends

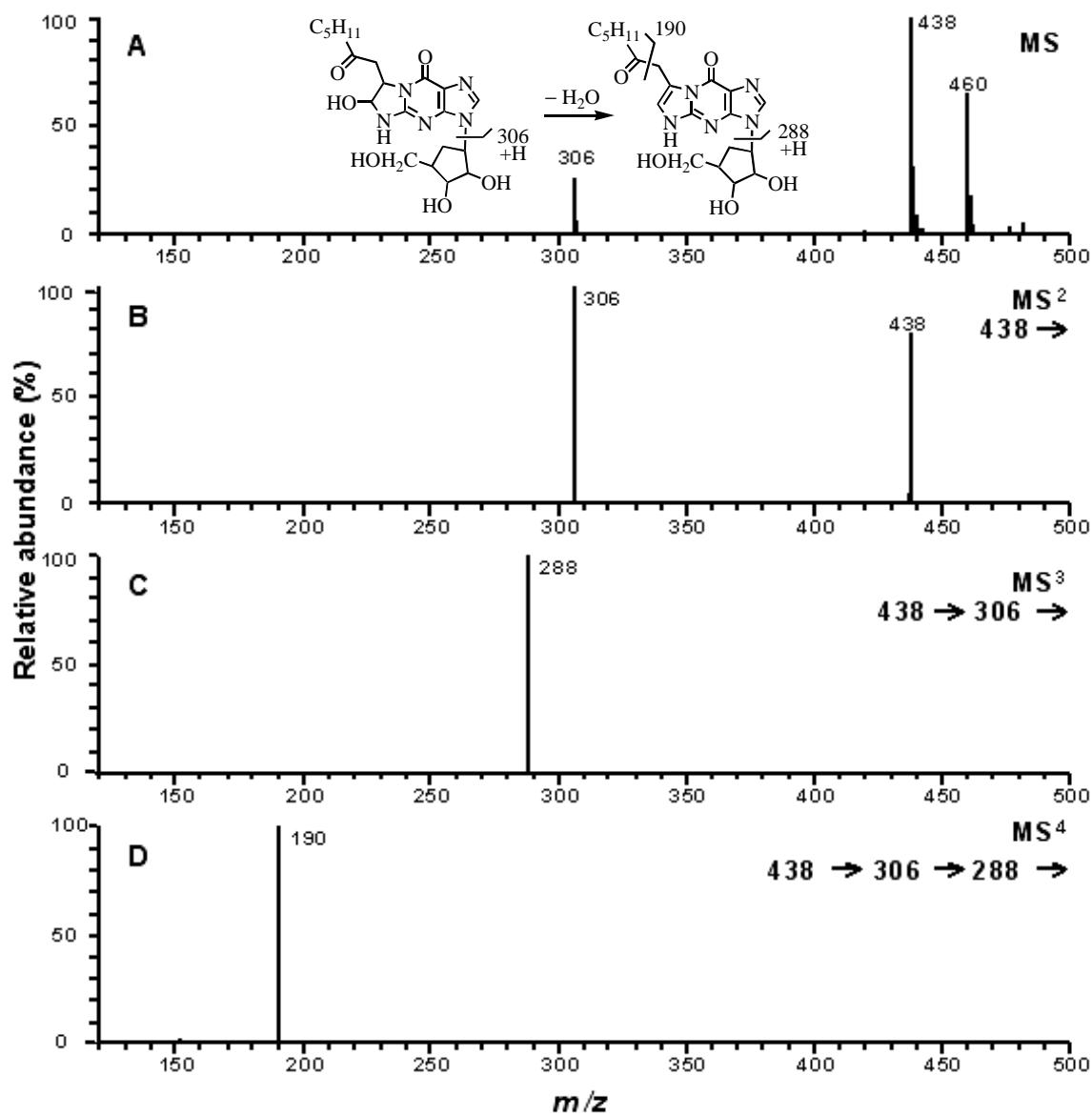
**Supplementary Figure 1:** MS<sup>n</sup> analysis of adduct A<sub>1a</sub>. The mass spectra of adduct A<sub>1b</sub>, A<sub>2</sub> and A<sub>3</sub> are identical: (A) full-scan mass spectrum, (B) MS<sup>2</sup> spectrum, (C) MS<sup>3</sup> spectrum and (D) MS<sup>4</sup> spectrum.

**Supplementary Figure 2:** MS<sup>n</sup> analysis of adduct B: (A) full-scan mass spectrum, (B) MS<sup>2</sup> spectrum and (C) MS<sup>3</sup> spectrum.

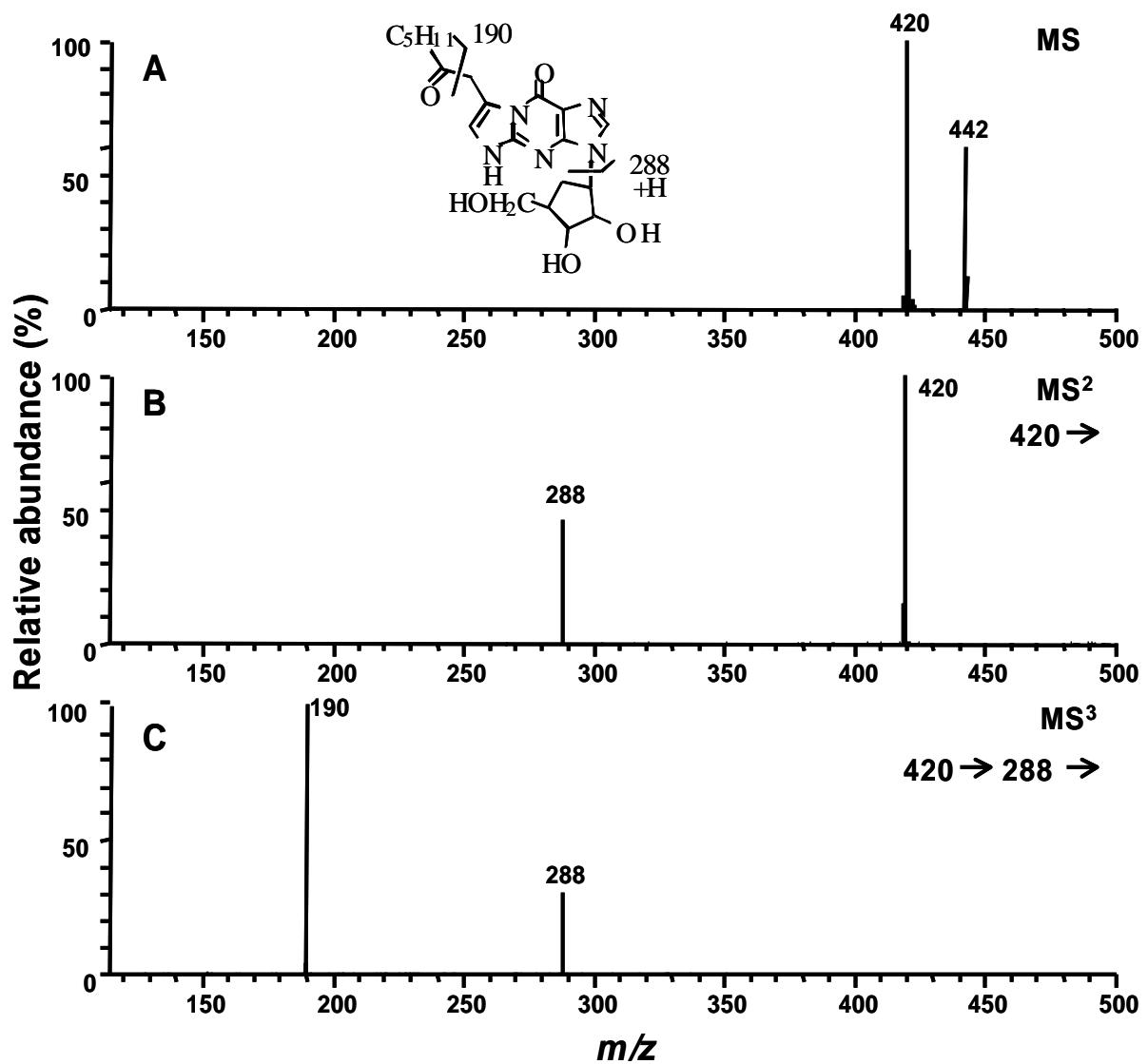
**Supplementary Figure 3:** UV spectra of adduct B at pH 1, 7 and 13.

**Supplementary Figure 4:** <sup>1</sup>H NMR spectrum of adduct B in 0.6 mL DMSO-*d*<sub>6</sub>.containing 1 drop of D<sub>2</sub>O.

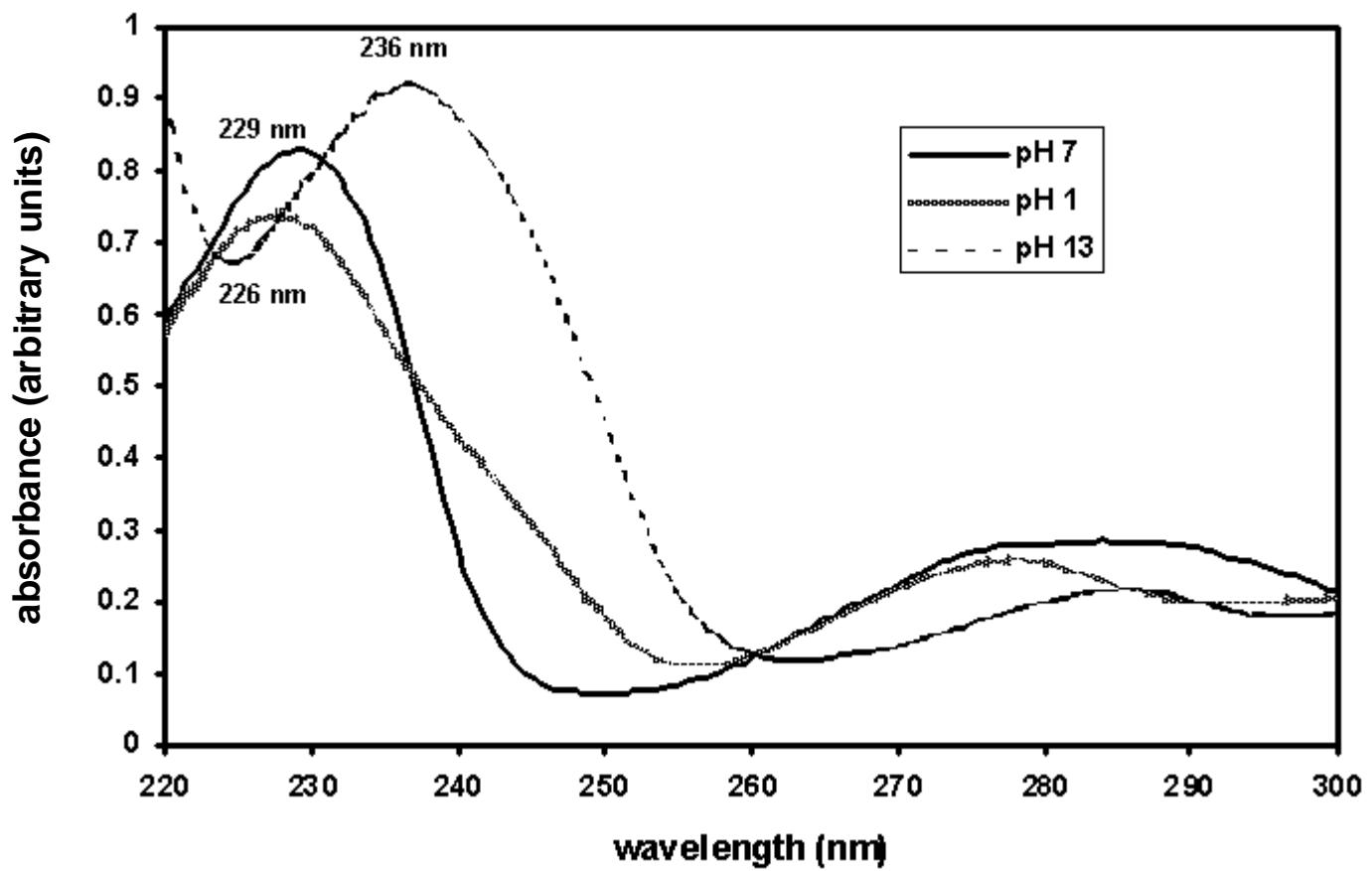
**Supplementary Figure 5:** Transformation of adduct A<sub>1a</sub> to adduct B at 60 °C, pH 7.4 for 4 h by LC/MS using gradient system 3. Total ion current (TIC) chromatograms at (A) time zero, (B) 4 h.



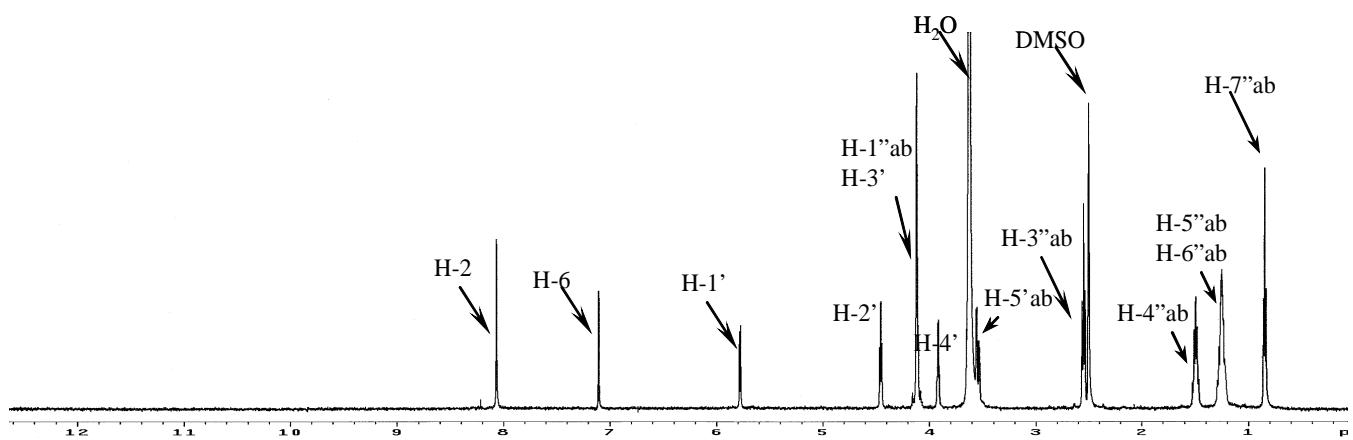
Supplementary Figure 1



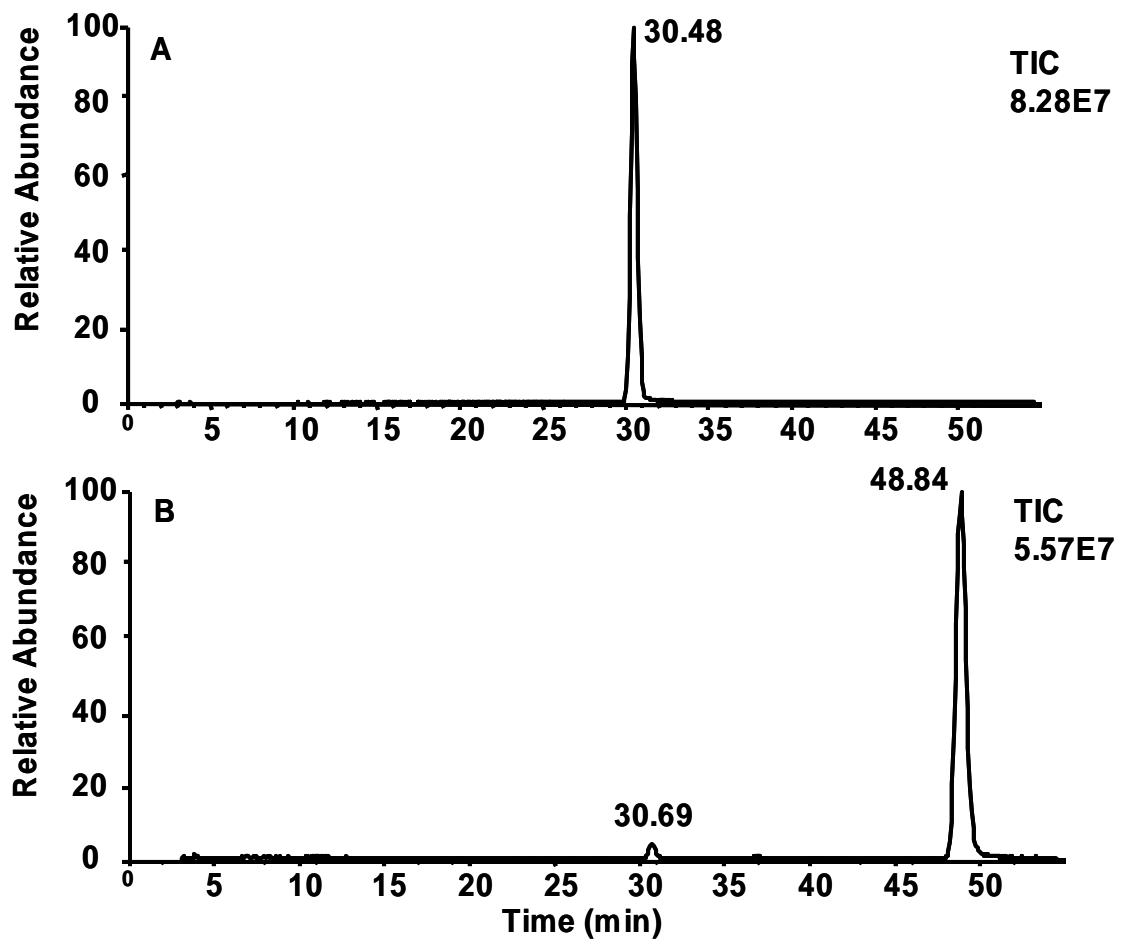
Supplementary Figure 2



Supplementary Figure 3



Supplementary Figure 4



Supplementary Figure 5