

Supplementary Material

Kukoamine B from Lycii Radicis Cortex protects human keratinocytes HaCaT cells through covalent modification by *trans*-2-nonenal

Hye Mi Kim¹, Jae-Yong Kim¹, Ji Hoon Kim¹ and Chul Young Kim^{1,*}

¹College of Pharmacy and Institute of Pharmaceutical Science and Technology, Hanyang University, Ansan, Gyeonggi-do 15588, Republic of Korea

*Corresponding author : Chul Young Kim

E-mail address: chulykim@hanyang.ac.kr

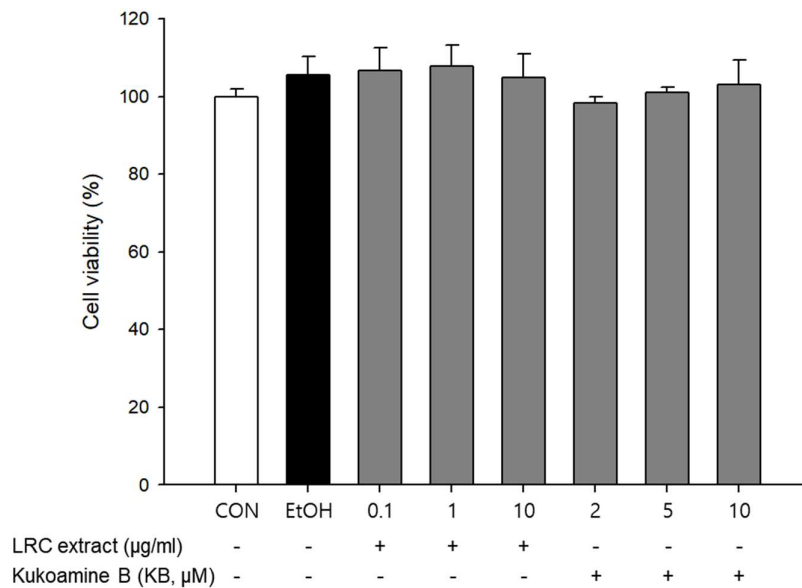


Figure S1. Cell viability of human keratinocytes treated with LRC extract (0.1, 1, 10 µg/ml) or KB (2, 5, 10 µM). These data are expressed as mean \pm SD of three independent experiments.

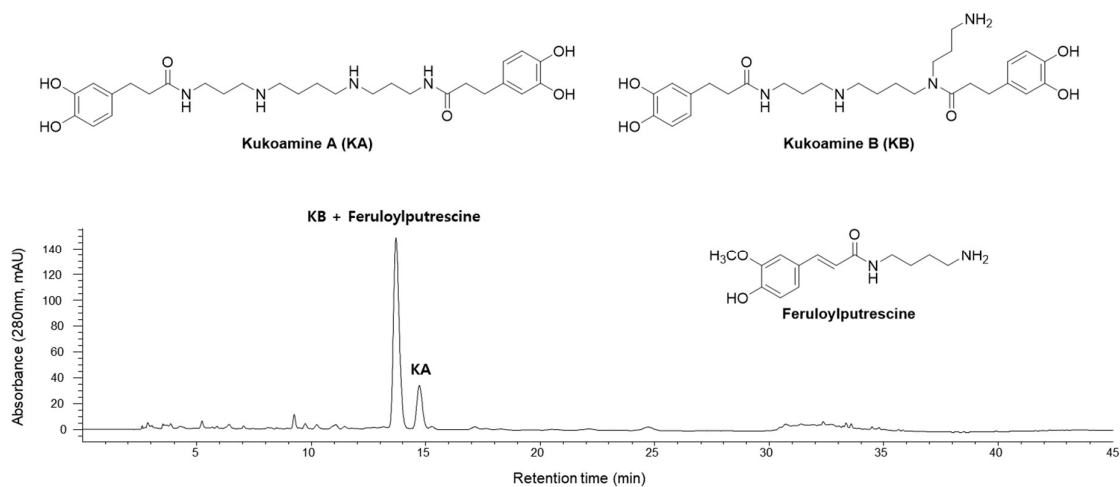


Figure S2. The HPLC chromatogram monitored at 280 nm of the LRC extract (10 mg/ml) dissolved in PBS.

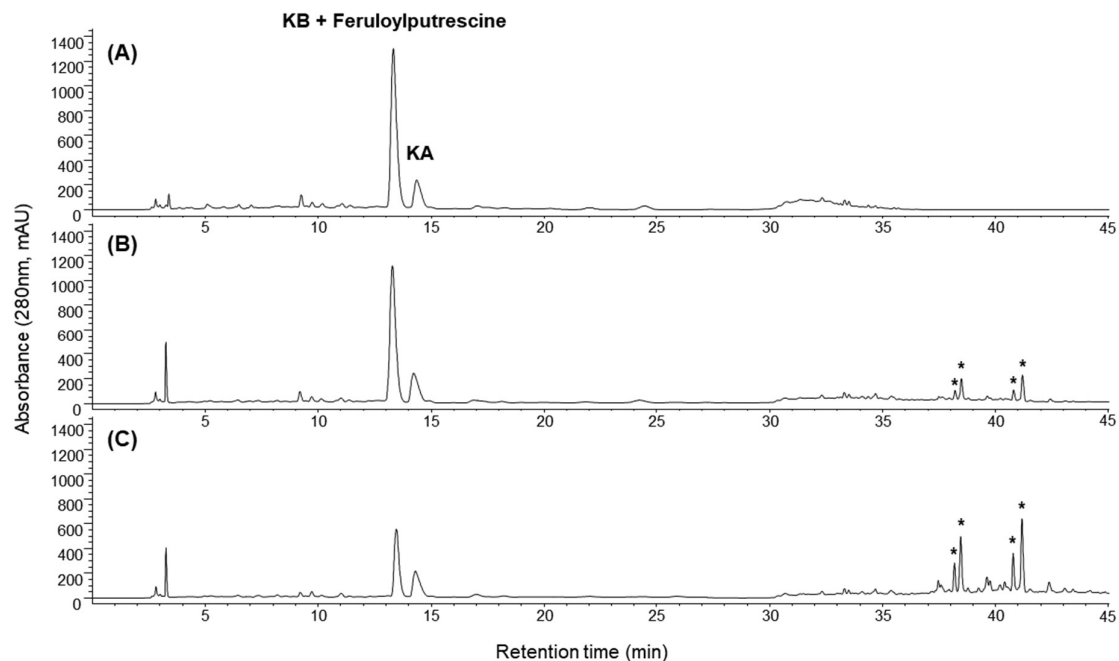


Figure S3. The HPLC chromatogram of LRC extract (100 mg/ml) after incubation with (A) 0.1 mM, (B) 50 mM, and (C) 100 mM of *trans*-2-nonenal for 24 h. The peaks designated as asterisk (*) were new product peaks appeared though this reaction.

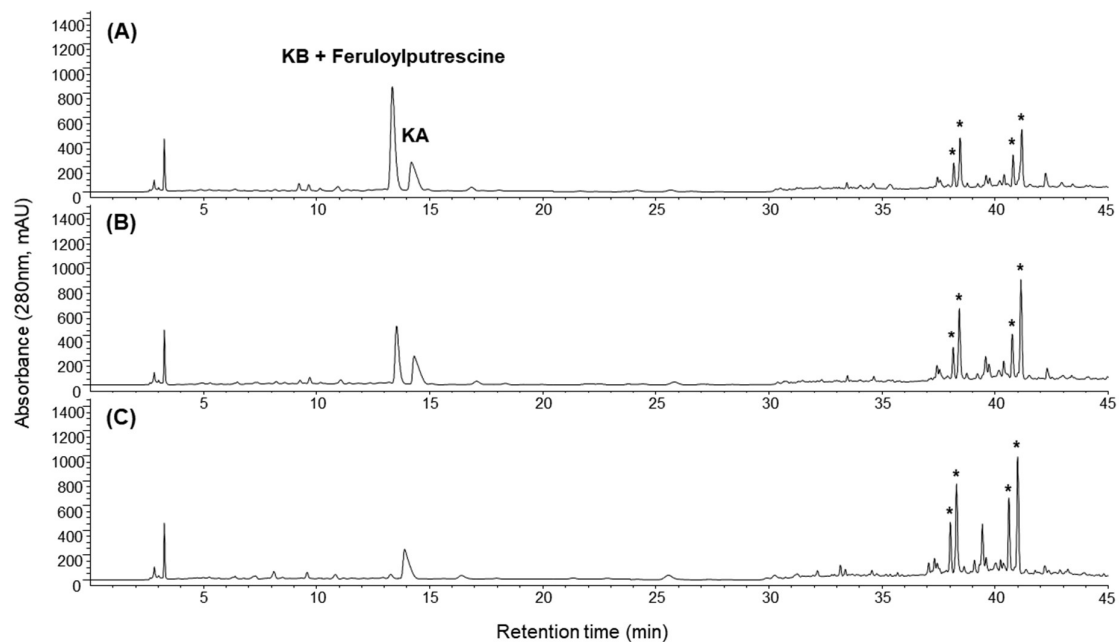


Figure S4. The HPLC chromatogram of LRC extract (100 mg/ml) after incubation with 100 mM of *trans*-2-nonenal for (A) 24 h, (B) 48 h, and (C) 72 h, respectively. The peaks designated as asterisk (*) were new product peaks appeared though this reaction.

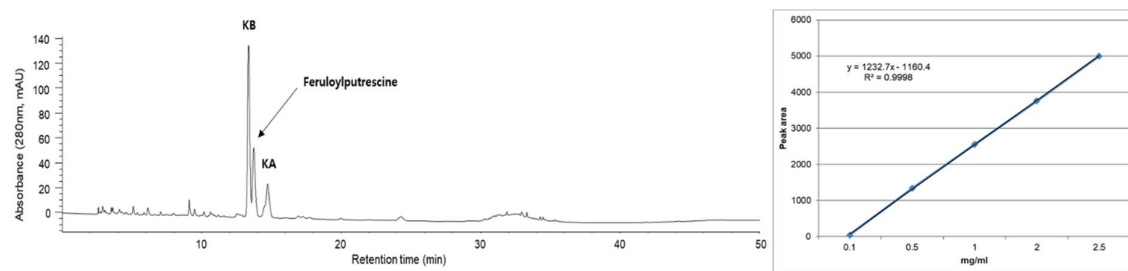


Figure S8. HPLC-UV profiles of the extracts and calibration curve of KB ($R^2=0.9998$).