Electronic Supplementary Material (ESI) for Food & Function.

Figure S1

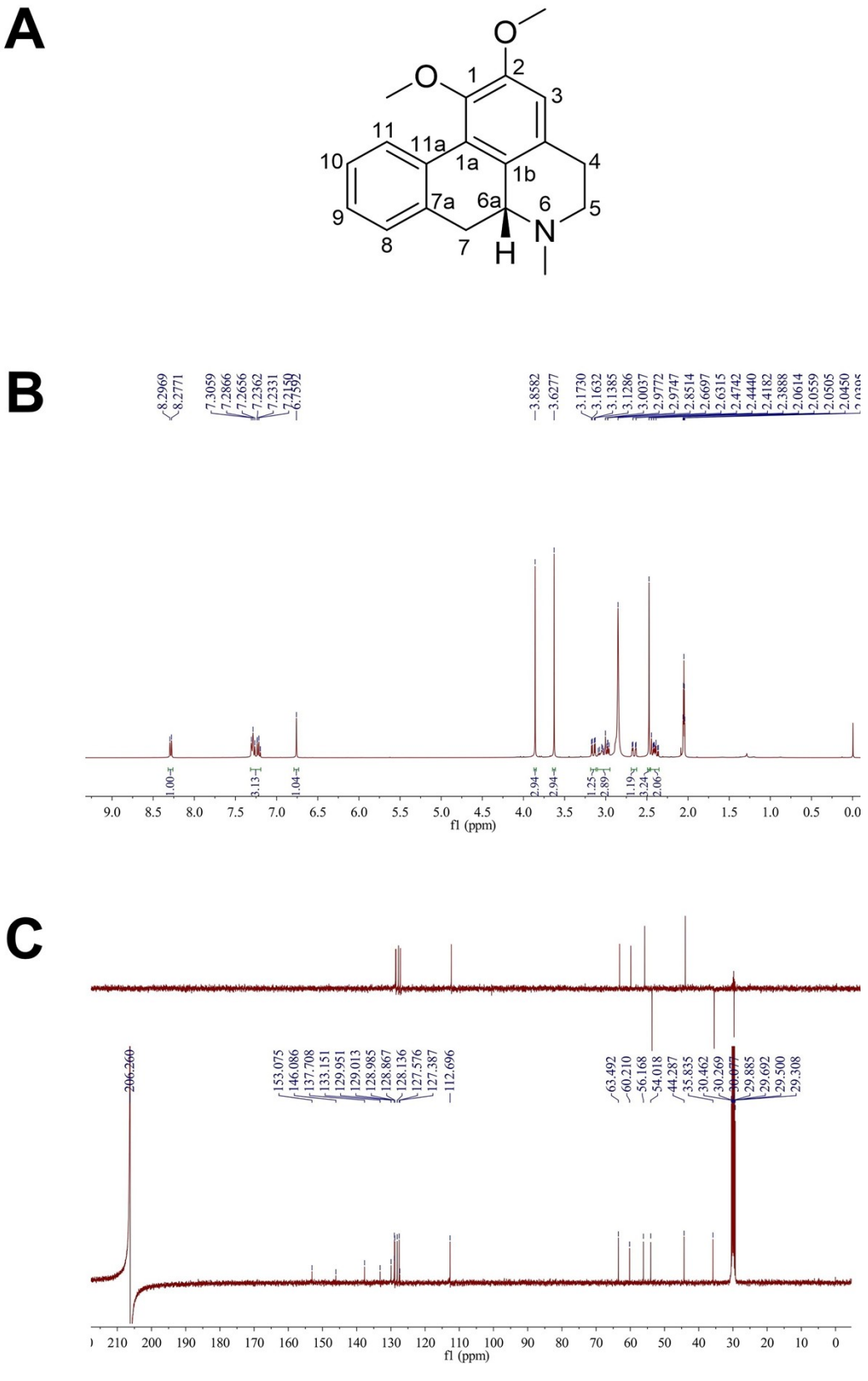

Figure S1. Structure identification of nuciferine. (A) Chemical structure of nuciferine; (B) ^{1}H-NMR spectra of nuciferine, ^{1}H-NMR (400 MHz, CD_3COCD_3) δ_H 8.29 (1H, d, J = 7.9 Hz, H-11), 7.31-7.22 (3H, m, H-8, H-9, and H-10), 6.76 (1H, s, H-3), 3.86 (3H, s, 1-OCH_3), 3.63 (3H, s, 2-OCH_3), 3.15 (1H, dd, J = 13.8 and 4.0 Hz, H-7a), 3.09-2.96 (3H, m, H-4a, H-5a, and H-7b), 2.65 (1H, dd, J = 13.8 and 3.4 Hz, H-6a), 2.47-2.36 (2H, m, H-4b and H-5b); (C) ^{13}C-NMR spectra of nuciferine, ^{13}C-NMR (100 MHz, CD_3COCD_3) δ_C 153.1 (C, C-2), 146.1 (C, C-1), 137.7 (C, C-7a), 133.2 (C, C-11a), 130.0 (C, C-3a), 129.0 (C, C-1a), 129.0 (CH, C-11), 128.9 (CH, C-8), 128.1 (CH, C-10), 127.6 (CH, C-9), 127.4 (C, C-1b), 112.7 (CH, C-3), 63.5 (CH, C-6a), 60.2 (CH_3, 1-OCH_3), 56.2 (CH_3, 2-OCH_3), 54.0 (CH_2, C-5), 44.3 (CH_3, N-CH_3), 35.8 (CH_2, C-7), 29.3 (CH_2, C-4).