Electronic Supplementary Material (ESI) for Food & Function.

The enrichment and purification of total flavones from the licorice residues was achieved by using macroporous resins. The performances and separation characteristics of four selected macroporous resins with different chemical and physical properties were investigated. HPD-100 resin was the most effective, the content of total flavones increased from 50.94% in the original extract to 82.98% in the 80% ethanol fraction (a 1.63-fold increase). Further purification treatment by polyamide resin, licochalcone A with a purity of 80.28% was obtained in a 45% ethanol fraction, and a higher purity (> 85%) of licochalcone A can be obtained by single crystallization operation (Published in the journal of chromatography B)[1]. Then, LicA (the purity exceeds 95%) was repeatedly purified by silica gel column (petroleum ether: Acetone = 6: 1), the purity spectrum of LicA was shown in **Fig. S1.**

1. **Luo Z H**, Guo Z H, Xiao T, et al. Enrichment of total flavones and licochalcone A from licorice residues and its hypoglycemic activity[J]. Journal of Chromatography B, 2019, 1114-1115: 134-145.

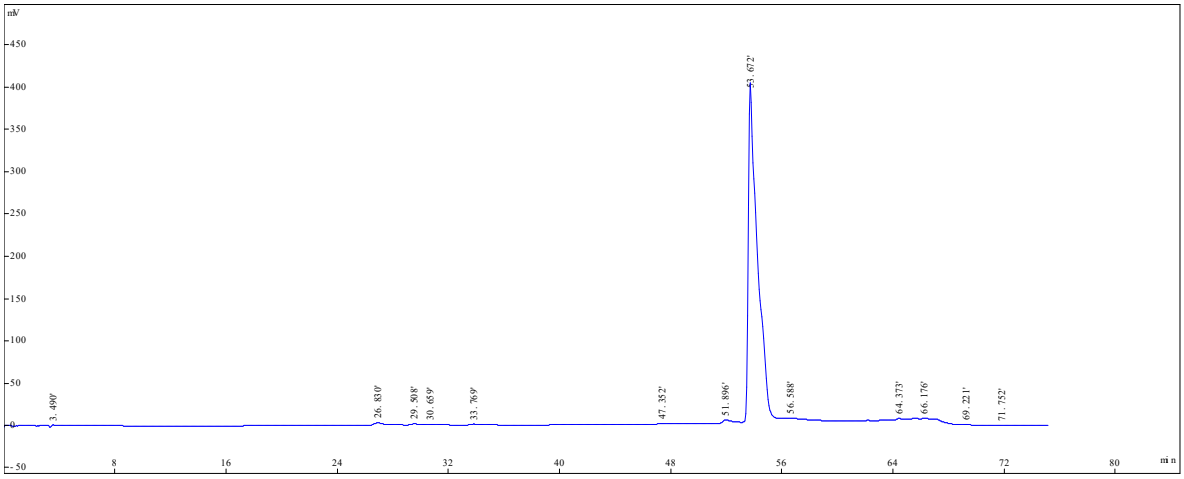

Fig. S1 Chromatogram of purity of LicA

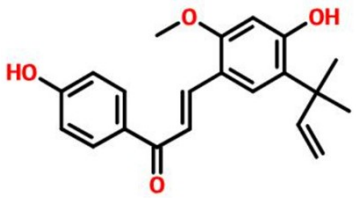

Fig. S2 Chemical structure of LicA