

Supplemental Information

Beneficial effects of Gracillin from *Rhizoma Paridis* against gastric carcinoma via TIPE2-mediated induction of endogenous apoptosis and inhibition of migration in BGC832 cells

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Figure S1

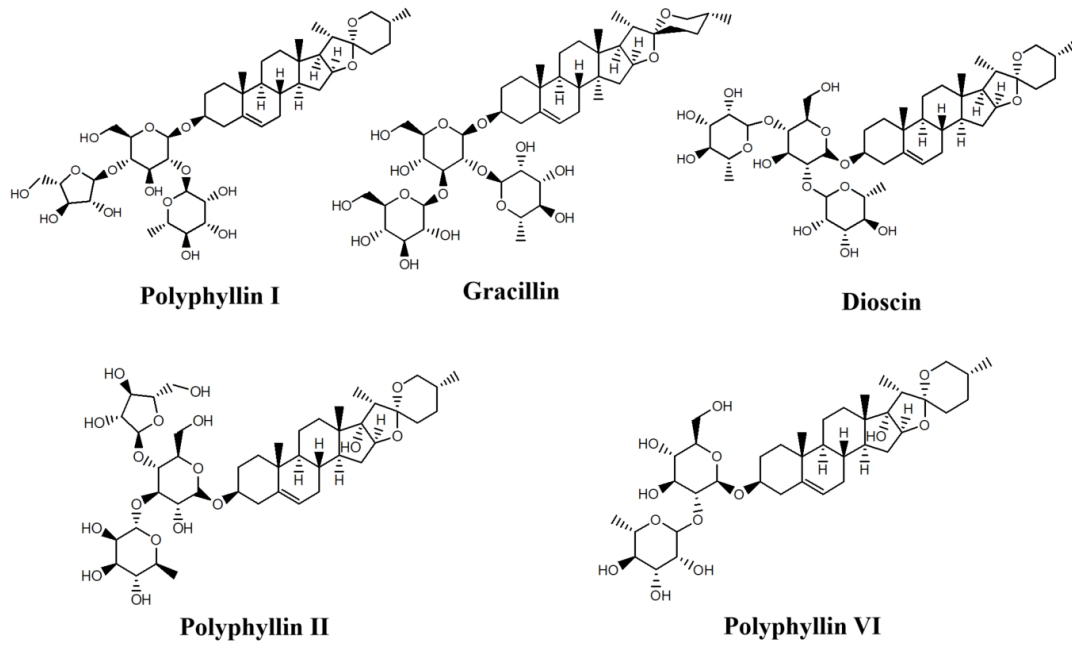


Figure S1 The structures of five active compounds

Figure S2

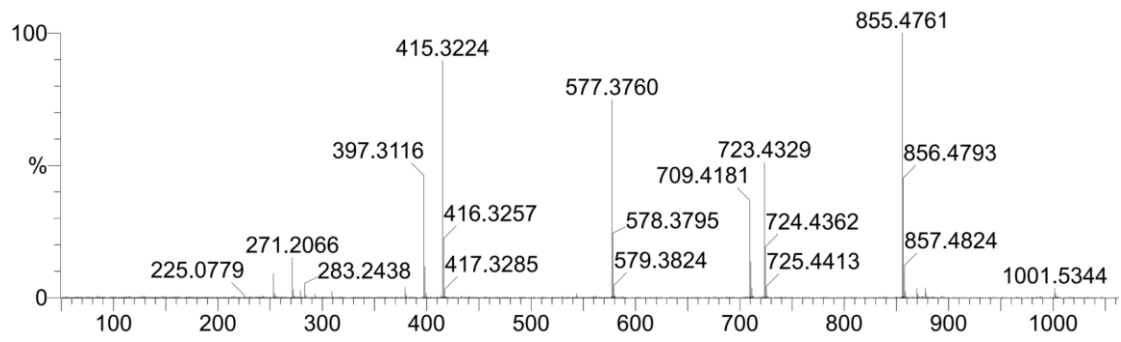


Figure S2 The MS spectra of polyphyllin I

Figure S3

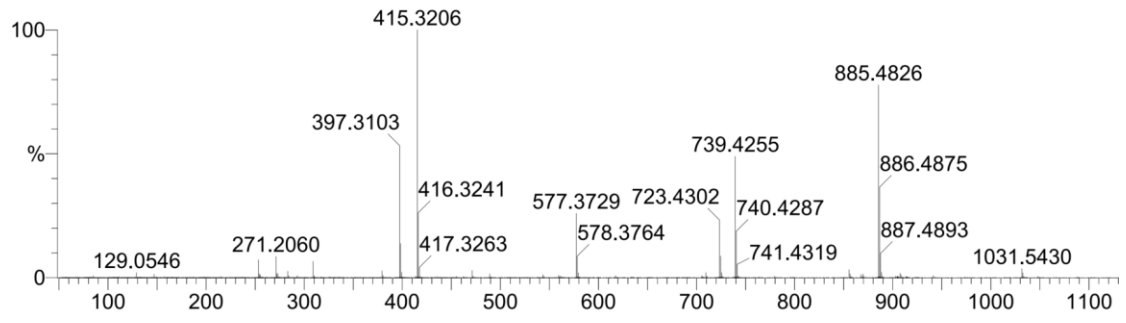


Figure S3 The MS spectra of gracillin

Figure S4

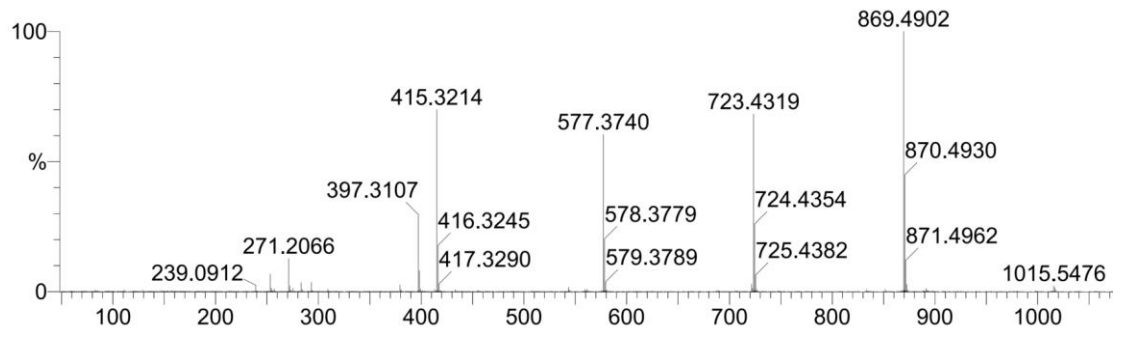


Figure S4 The MS spectra of dioscin

Figure S5

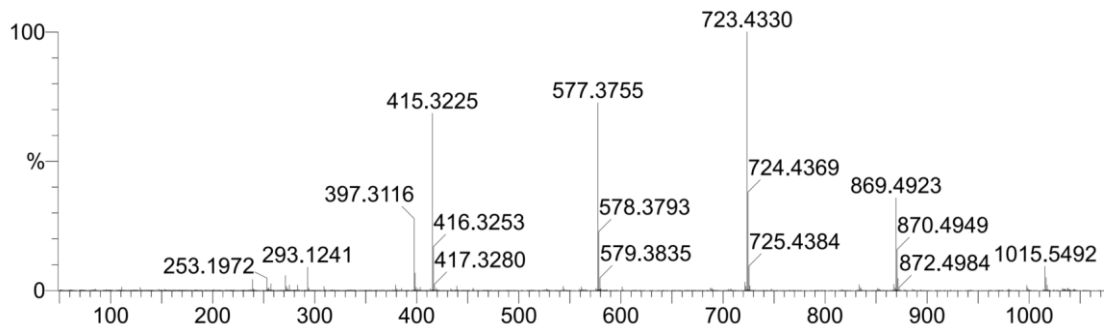


Figure S5 The MS spectra of polyphyllin II

Figure S6

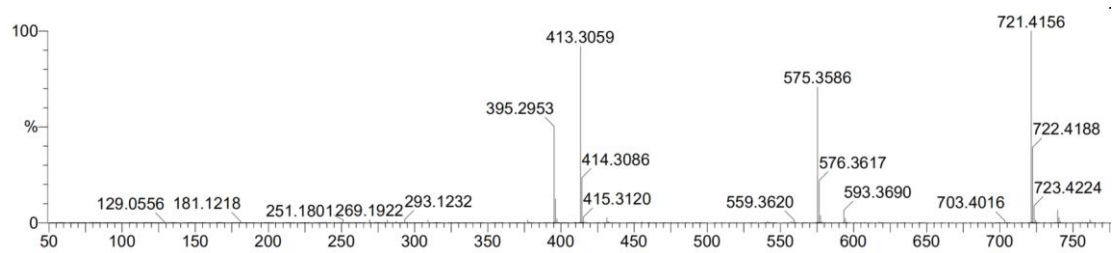


Figure S6 The MS spectra of polyphyllin VI

Figure S7

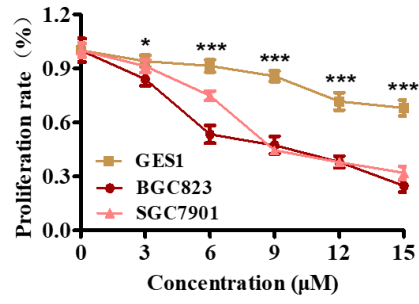


Figure S7 The effects of gracillin with the different concentrations on cell proliferation in normal gastric cell line GES1, gastric cancer cell lines BGC823 and SGC7901

Figure S8

Gracillin

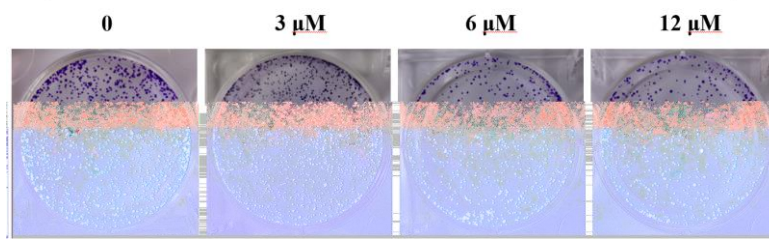


Figure S8 Colon formation for cell proliferation by gracillin in gastric cancer cell line SGC7901.

Figure S9

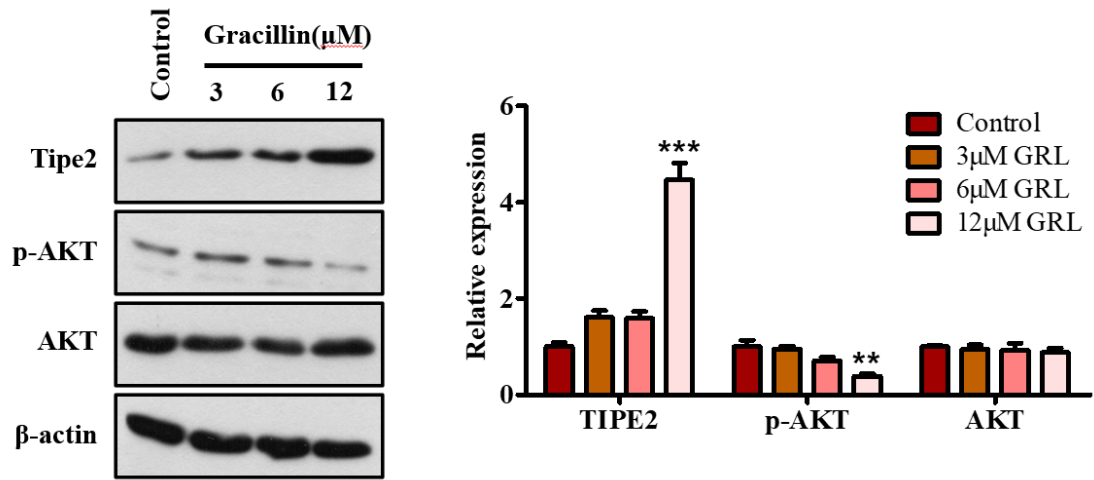


Figure S9 Western blot for detecting the protein expression of TIPE2, AKT and p-AKT mediated by gracillin in gastric cancer cell line SGC7901.

Figure S10

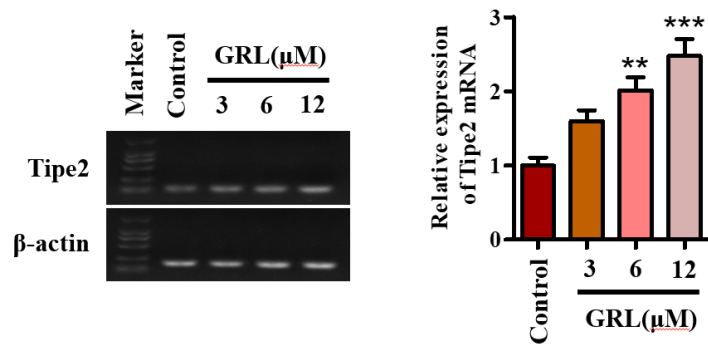


Figure S10 RT-PCR for detecting the mRNA expression of TIPE2 mediated by gracillin in gastric cancer cell line BGC823.

Figure S11

Normal **Model** **Gracillin**

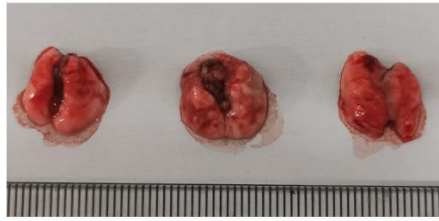


Figure S11 The representative images from lung of mice for lung metastases.

Figure S12

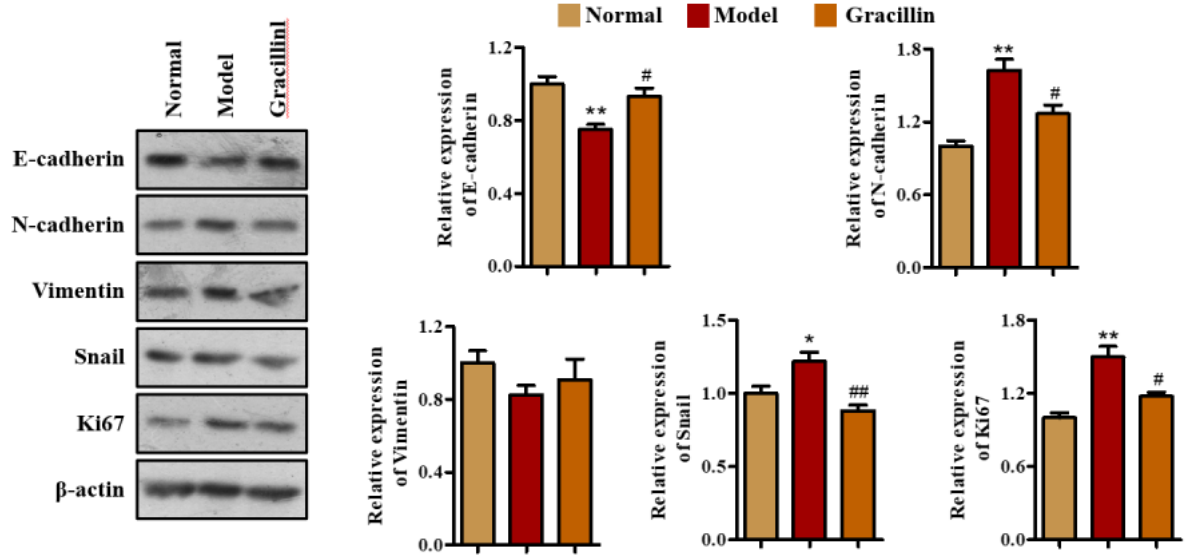


Figure S12 Western blot for detecting the tumor proliferation and metastases-associated protein expressions of ki67, E-cadherin, N-cadherin, vimentin and snail in lung tissue of mice.