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**Fig. 1.** Effects of NGF on PC12 cells. (A) The expression of TUJ1 protein was induced by NGF on the fourth day; (B) The expression of GAP-43 protein was induced by NGF on the fourth day. Data are expressed as Mean ± S. D. of independent experiments.







**Fig. 2.** Chromatograms of washing solution and dissolution solution. (A) washing solution (a: the first washing solution, b: the second washing solution, c: the third washing solution); (B) blank group dissolution solution; (C) BHD incubation group dissociation solution.





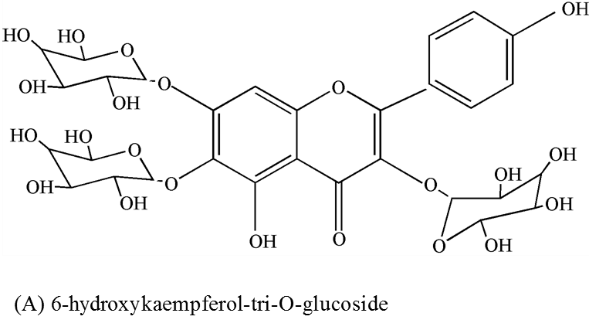
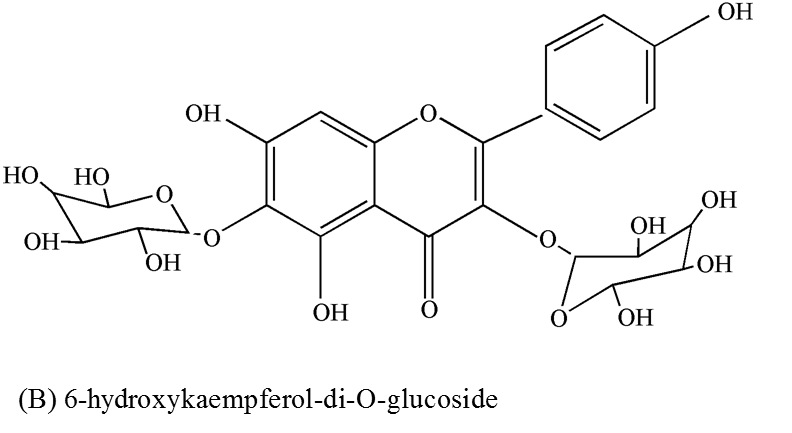


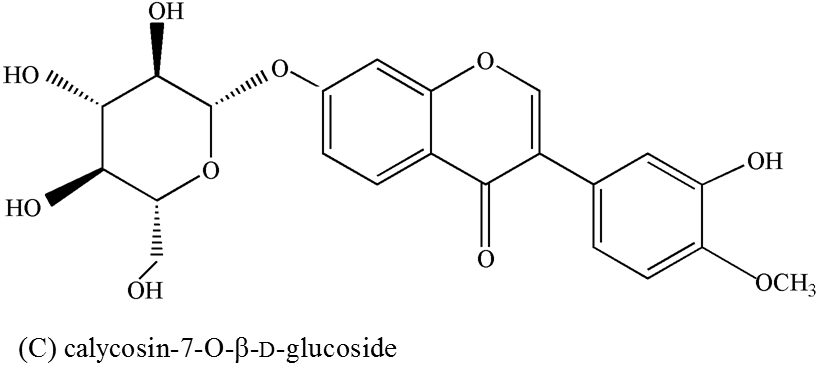


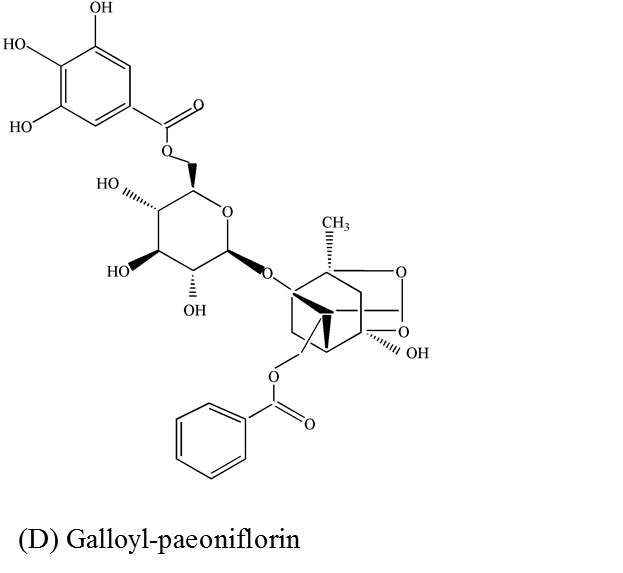


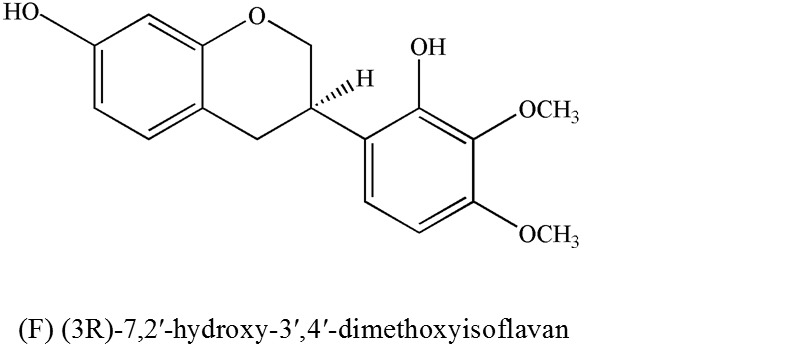
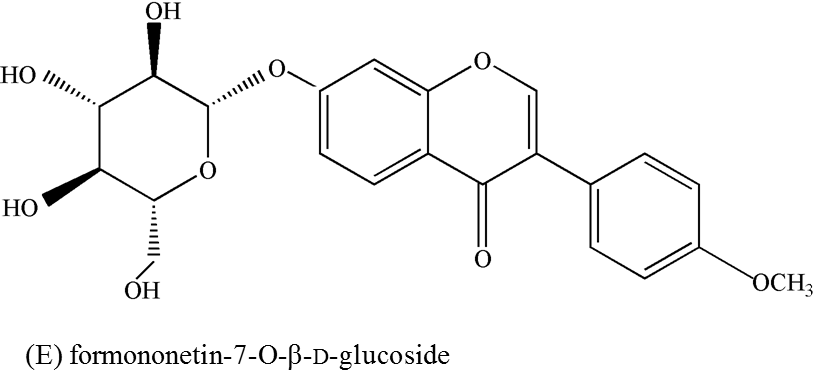


**Fig. 3.** MS spectra of the six binding components.(A) 6-hydroxykaempferol-tri-O-glucoside; (B) 6-hydroxykaempferol-di-O-glucoside; (C) Calycosin-7-O-β-d-glucoside; (D) Galloyl-paeoniflorin; (E) Formononetin-7-O-β-d-glucoside; (F) (3R)-7,2′-hydroxy-3′,4′-dimethoxyisoflavan.

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**Fig. 4.** The structures of the identified binding components.

**Table. 1.** Effects of compounds on cell viability (mean ± SD, *n*=3)

|  |  |  |
| --- | --- | --- |
| The binding components on PC12 cells | Concentration  (μg/mL) | Average survival rate  (%) |
| 6-hydroxykaempferol-tri-O-glucoside | 1.130 | 71.73±12.37# |
| 5.650 | 79.20±9.98# |
| 11.300 | 85.19±15.15# |
| 6-hydroxykaempferol-di-O-glucoside | 1.365 | 69.88±10.04# |
| 6.825 | 78.40±13.09# |
| 13.650 | 92.59±14.07# |
| Calycosin-7-O-β-d-glucoside | 1.063 | 19.38±12.23# |
| 5.313 | 60.86±14.28# |
| 15.938 | 81.30±10.05# |
| Galloyl-paeoniflorin | 2.240 | 68.95±10.06# |
| 11.200 | 76.17±13.03# |
| 22.400 | 87.72±14.08# |
| Formononetin-7-O-β-d-glucoside | 0.163 | 65.31±12.25# |
| 1.630 | 77.35±10.03# |
| 16.300 | 83.89±15.07# |
| (3R)-7,2′-hydroxy-3′,4′-dimethoxyisoflavan | 0.800 | 68.27±15.05# |
| 4.000 | 79.07±10.03# |
| 12.000 | 85.68±11.08# |
| OGD/R | — | 12.72±3.10\* |
| Control | — | 99.89±10.00 |

*\*P <* 0.05 *vs.* control group; *# P <* 0.05 *vs.* OGD/R group

**Fig. 6.** Effects of CG and FG on the proteins expression in PC12 cells. *\*P <* 0.05 *vs.* control group; *# P <* 0.05 *vs.* OGD/R group.