

Water-soluble acacetin prodrug confers significant cardioprotection against ischemia/reperfusion injury

Hui Liu, Lei Yang, Hui-Jun Wu, Kui-Hao Chen, Feng Lin, Gang Li, Hai-Ying Sun, Guo-Sheng Xiao, Yan Wang, Gui-Rong Li

Supplemental material

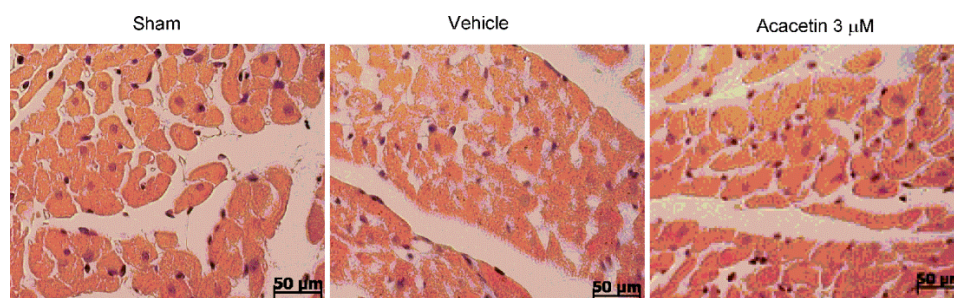


Figure S1. HE staining of ventricular slices from *ex vivo* rat hearts.

Sham: Sham rat heart tissue without ischemia/reperfusion.

Vehicle: Vehicle-treated rat heart tissue with ischemia/reperfusion.

Acacetin 3 μ M: Rat heart treated using 3 μ M acacetin with ischemia/reperfusion.

Significant histological alteration was observed in vehicle-treated heart. Tissue damage was clearly attenuated in acacetin-treated heart.

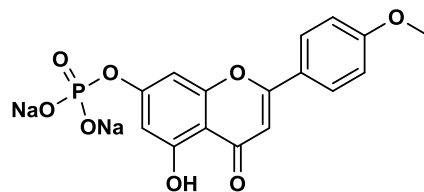
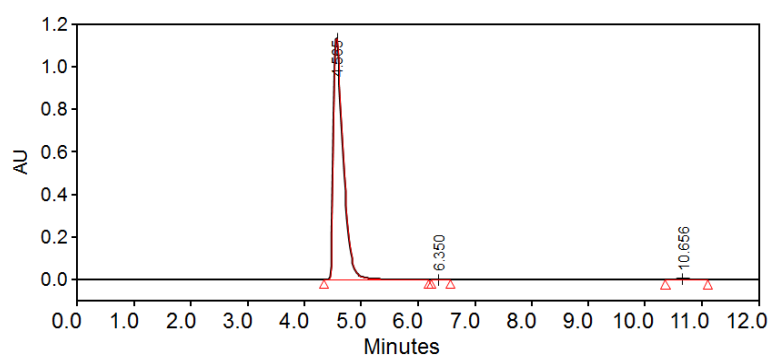


Figure S2. Structure of prodrug



UV HPLC 1 result

| Peak # | Retention Time | % Area |
|--------|----------------|--------|
| 1 | 4.57 | 99.04 |
| 2 | 6.35 | 0.05 |
| 3 | 10.66 | 0.91 |
| Totals | | 100.00 |

Figure S3. HPLC graph of prodrug showing the purity of 99.04%.