



## Gentiopicroside, a Major Component of Gentianaceae Plants, Could Attenuate Triptolide-Induced Liver Injury in HepG2 Cells

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**SUMMARY.** Gentiopicroside is the major component of Gentianaceae plants, a widely used traditional herbal medicine in China. Triptolide (TP) is the main component of *Tripterygium Wilfordii* Hook. f. (TW) and responsible for its toxicity effects. We have therefore examined the ameliorative potential of gentiopicroside against TP induced hepatotoxicity in HepG2 cells. The treatment of gentiopicroside (1-50  $\mu$ M) showed dose-dependent protectiveness on TP-induced cytotoxicity in HepG2 cells via mitochondrial and oxidative pathway. Our findings show that gentiopicroside possess anti hepatotoxic effects and suggested to use as medicinal supplement during TW based chemotherapy.

**RESUMEN.** El genciopicrosido es el componente principal de las Gentianaceae, una medicina herbaria tradicional ampliamente utilizada en China. Triptólido (TP) es el componente principal de *Tripterygium Wilfordii* Hook. f. (TW) y responsable de sus efectos tóxicos. Por lo tanto, hemos examinado el potencial de mejora del efecto del genciopicrosido contra la hepatotoxicidad inducida por TP en células HepG2. El tratamiento con genciopicrosido (1-50  $\mu$ M) mostró una protección dosis-dependiente sobre la citotoxicidad inducida por TP en células HepG2 a través de la vía mitocondrial y oxidativa. Nuestros hallazgos muestran que el genciopicrosido posee efectos anti hepatotóxicos y se sugiere su uso como suplemento medicinal durante la quimioterapia basada en TW.

**KEY WORDS:** *Tripterygium wilfordii*; hepatotoxicity; oxidative stress; gentiopicroside

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