



# A new xanthone from the roots of *Centaurium spicatum* L.

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## Abstract:

The chloroformic fraction of the roots of *Centaurium spicatum* L. afforded one new xanthone named 1,5,8-trihydroxy-3,6,7-trimethoxyxanthone (1) together with six known xanthones (2-7), one of them isolated for the first time from a plant source (2). One secoiridoid glucoside (8) was also isolated. The structures of the isolated compounds were established based on 1D and 2D (<sup>1</sup>H-<sup>1</sup>H COSY, HMQC, and HMBC) NMR spectroscopy, in addition to high resolution mass spectrometry. The isolated compounds were tested for their antimicrobial and antiprotozoal activities. Compound 6 displayed moderate antifungal activity against *Candida krusei* and *Cryptococcus neoformans* with IC<sub>50</sub> values of 12.8 and 17.9 mg/ml respectively.

## Keywords:

*Centaurium spicatum* Gentianaceae Xanthones Secoiridoid Antimicrobial Antiprotozoal

## Published In:

Phytochemistry Letters , 4 , 126-128