



Cytotoxic Sesquiterpene Lactones of Egyptian *Tanacetum santolinoides*

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Abstract:

The chloroform soluble fraction of the methanolic extract of the aerial parts of *Tanacetum santolinoides* afforded six sesquiterpene lactones. Tanacetolide A (1) was isolated for the first time from a natural source, in addition to five known sesquiterpene lactones. The structures were established on the basis of extensive studies of their 1D and 2D (¹H-¹H COSY, HMQC, HMBC, HOHAHA and NOESY) NMR spectra and FAB mass spectral determinations. The compounds showed good cytotoxic activity when tested using the brine shrimp bioassay.

Keywords:

Tanacetum santolinoides, sesquiterpene lactones, tanacetolide A, brine shrimp bioassay.

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