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Pakistan Journal of Pharmaceutical Sciences
Volume 27, Issue 1, January 2014, Pages 179-181

Haplophytin B from *Maclurodendron porteri* (Article)

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Abstract

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An alkaloid from *Maclurodendron porteri* has been isolated and characterized. Extraction process was conducted by acid-base extraction method followed by column chromatography. The structure was established by nuclear magnetic resonance spectroscopy and mass spectrometry. The compound was identified as haplophytin B which occurs commonly in the Rutaceae family. However, this is the first time this alkaloid was isolated and reported from the species. The compound showed no inhibition against *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Bacillus cereus* and *Escherichia coli* and no cytotoxic activity against H199 and A549 cell lines.

Author keywords

Furanoquinoline alkaloid Haplophytin B *Maclurodendron porteri* Rutaceae

Indexed keywords

EMTREE drug terms: alkaloid derivative haplophytin B *Maclurodendron porteri* extract plant extract
unclassified drug

EMTREE medical terms: antibacterial activity article *Bacillus anthracis* *Bacillus cereus*
carbon nuclear magnetic resonance column chromatography controlled study
drug cytotoxicity drug identification drug isolation drug structure
electrospray mass spectrometry *Escherichia coli* *Maclurodendron porteri* mass spectrometry
medicinal plant nonhuman proton nuclear magnetic resonance *Pseudomonas aeruginosa*
Rutaceae *Staphylococcus aureus*

ISSN: 1011601X

Source Type: Journal

Original language: English

Document Type: Article

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