

Graviola - Annona muricata . Novas acetogeninas anonáceas com efeito em duas linhagens do hepatoma

New cytotoxic monotetrahydrofuran annonaceous acetogenins from Annona muricata.

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Source

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Abstract

Three new monotetrahydrofuran annonaceous acetogenins, muricin H (1), muricin I (2), and cis-annomontacin (3), along with five known acetogenins, annonacin, annonacinone, annomontacin, murisolin, and xylomaticin, were isolated from the seeds of *Annona muricata*. Additionally, two new monotetrahydrofuran annonaceous acetogenins, cis-corossolone (4) and annocatalin (5), together with four known ones, annonacin, annonacinone, solamin, and corossolone, were isolated from the leaves of this species. The structures of all new isolates were elucidated and characterized by spectral and chemical methods. These new acetogenins exhibited significant activity in *in vitro* cytotoxic assays against two human hepatoma cell lines, Hep G(2) and 2,2,15. Compound 5 showed a high selectivity toward the Hep 2,2,15 cell line.

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