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Artepillin C, drupanin, aromadendrin-4'-O-methyl-ether and kaempferide from Brazilian green propolis promote gastroprotective action by diversified mode of action

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Abstract

Ethopharmacological relevance

The propolis is extensively used in folk medicine *in natura* or to prepare pharmaceutical formulations since ancient time to improve health or prevent diseases, among them gastrointestinal disorders. Aiming to contribute in the scientific validation about the popular use of Brazilian Green propolis (BGP) against gastritis and gastric ulcer, this work evaluated the antiulcer potential of isolated compounds from BGP, three prenylated *p*-coumaric acid derivatives and two flavonoids, respectively named: 3,5 diprenyl-4-hydroxycinnamic acid (artepillin C) (**1**), 3-prenyl-4-dihydroxycinnamoiloxy cinnamic acid (baccharin) (**2**), 3-prenyl-4-hydroxycinnamic acid (drupanin) (**3**), aromadendrin-4'-O-methyl-ether (**4**) and kaempferide (**5**).

Material and methods

The compounds were characterized by nuclear magnetic resonance and mass spectrometry. Their gastroprotective effects were evaluated against ethanol/HCl- and indomethacin-induced ulcer in mice. Further, histological, histochemical, oxidative and inflammatory parameters were analyzed at ulcerated tissue. Acid antisecretory activities also were also assessed.

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