

## Flavonoid glycosides and pharmacological activity of *Amphilophium paniculatum*

Mahmoud I. Nassar, El-Sayed A. Aboutabl, Dina M. Eskander, Mary H. Grace, Ezzel-Din A.

EL-Khrisy, Amany A. Sleem

Department of Chemistry of Natural Compounds, National Research Centre, Dokki

### ABSTRACT

Background Nothing is reported on *Amphilophium paniculatum* (L.) Kunth. This study aimed at investigation of chemical constituents of the leaves of *Amphilophium paniculatum*, grown in Egypt, in addition to pharmacological evaluation. Materials and Methods Isolation of a new compound, along with 5 known flavonoids. Pharmacological activities were carried out on different extracts of *A. paniculatum* leaves. Results Identification of a new flavone glycoside, acacetin 8-C-b-D- glucopyranosyl-(1 $\rightarrow$ 2)-a-L-rhamnopyranoside (1) in addition to 5 known flavonoids. The 70% ethanol crud extract and its successive chloroform, ethyl acetate, and 100% ethanol extracts showed significant anti-inflammatory activity, analgesic effect, antipyretic activity, antioxidant activity, and anti-hyperglycemic activity. Determination of the median lethal dose (LD<sub>50</sub>) revealed that the different extracts were safe.

### KEYWORDS

*Amphilophium paniculatum* . bignoniaceae . flavonoids . pharmacology

### REFERENCES

2026 Phcog.Net - All rights reserved. Published on the JrnIXPress platform.