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Isolation of b-sitosterol diglucosyl caprate from Alpinia galanga

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ABSTRACT

Background The purpose of present investigation to isolate b-sitosterol diglucosyl caprate from the rhizomes of Alpinia galanga. Methods The methanolic extract of the rhizomes of plant Alpinia galanga was subjected to column chromatography and was eluted with ethyl acetate-methanol (99:1) to yield compound (AG5) b-sitosterol diglucosyl caprate. Various spectral techniques such as Ultraviolet (UV), Infrared (IR), Hydrogen Nuclear Magnetic Resonance (1HNMR), Carbon Nuclear Magnetic Resonance (13CNMR), and MASS spectrometry (MS), were employed to determine and elucidate. Results Chemical and spectral investigation of extract furnished a new steroidal glycoside. Conclusion The isolated compound b-sitosterol diglucosyl caprate could serve as a lead compound in synthesis of steroids.

KEYWORDS

Alpinia galanga . methanolic extract . rhizomes . b-sitosterol diglucosyl caprate

REFERENCES