Steroids from the roots of Neocarya macrophylla (Sabine) Prance



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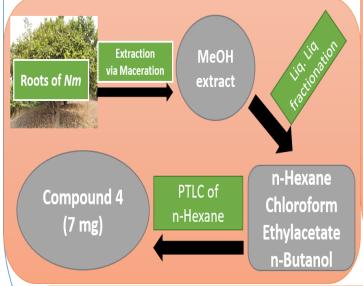
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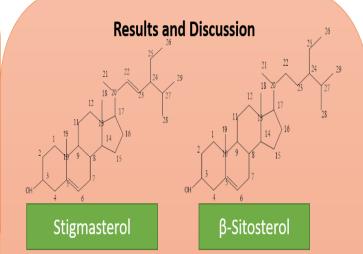
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Introduction

Neocarya macrophylla belonging to the family Chrysobalanaceae is commonly called "Ginger bread plum" in English and "Farar rura" in Hausa. The plant Neocarya macrophylla is used in traditional medicine to treat respiratory disorders, asthma, cancer, pain snakebite, among other diseases (Yusuf et al., 2015). Isolation of some flavonoids and stigmasterol from the stem bark of the plant have been reported (Yusuf et al., 2020). However, there is no report yet on the isolation of any compound(s) from the roots of the plant; thus, the aim of this study was to isolate and characterized compound(s) from the root of N. macrophylla.





Conclusion

Compound 4 isolated from the roots of *Neocarya* macrophylla was a mixture of stigmasterol and β -sitosterol.

These compounds have been reported to possess a number of pharmacological actions such as antivenom, analgesic, anti-inflammatory and antimicrobial effects among others.

This is the first report of isolation and characterization of compounds from the root of the plant

Some Reference

Warra AA, Umar RA, Sani I, Gafar MK, Nasiru A, Ado A. Preliminary phytochemical screening and physicochemical analysis of ginger bread plum (*Parinari macrophylla*) seed oil. J

Yusuf AJ, Abdullahi MI, Musa AM, Haruna AK, Mzozoyana V, Abubakar H. Bioactive (+)-Catechin-3'-O-rhamnopyranoside from Neocarya macrophylla (Sabine) Prance (Chrysobalanaceae), Egypt J Basic Appl Sci 2019; DOI:10.1080/2314808X,2019.1673549.