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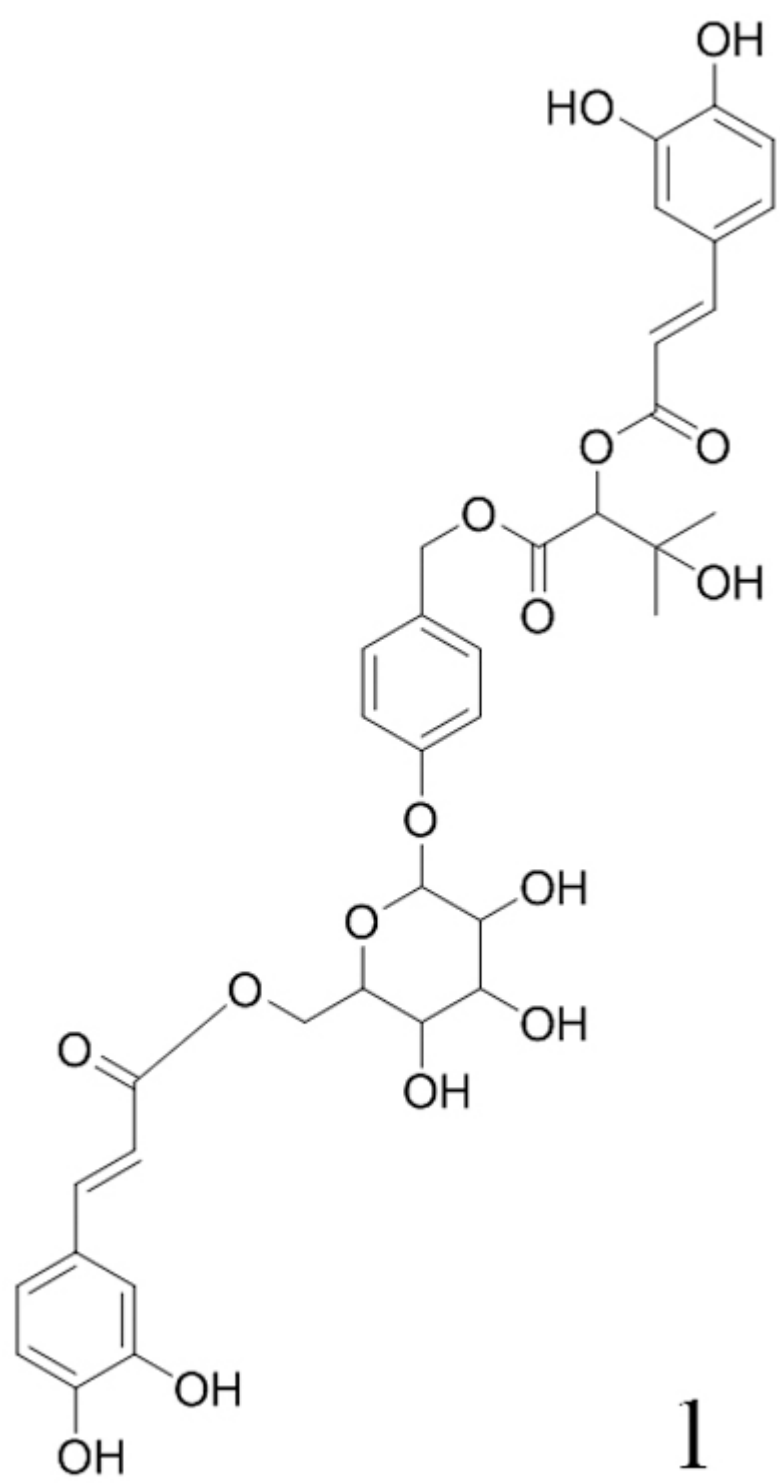
Planta Med 2014; 80 - PD31
DOI: 10.1055/s-0034-1382452

Radical scavenging activity of novel phenolic glycosides from *Citrullus lanatus*

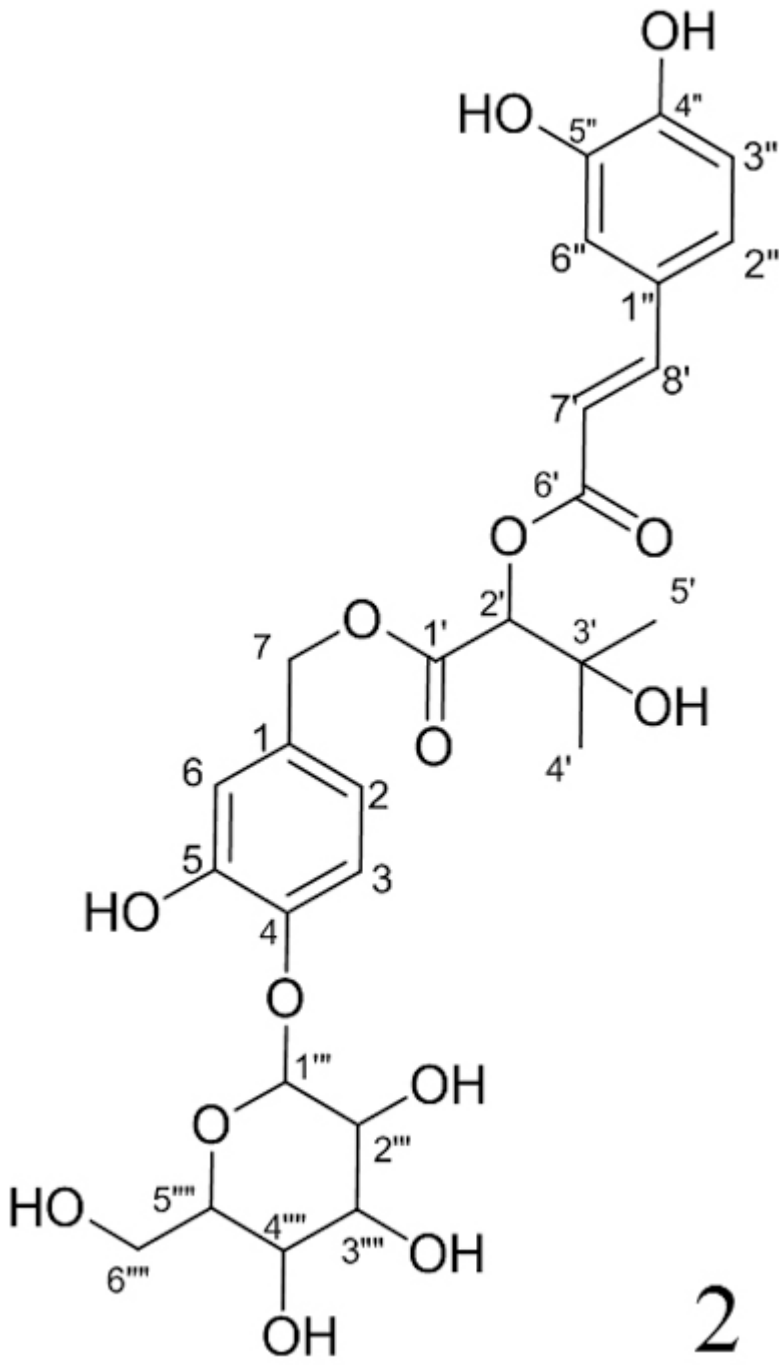
AH Adebayo ^{1,2}, FH Song ², XT Liu ¹, HQ Dai ¹, P Huang ¹, JY Zhang ¹, LX Zhang ²

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- ²CAS Key Laboratory of Pathogenic Microbiology & Immunology, Institute of Microbiology, Chinese Academy of Sciences, Beijing, China
- [Congress Abstract](#)

Three new compounds (1 – 3) were isolated from the whole plant of *Citrullus lanatus* (Cucurbitaceae). The structures of these compounds were characterized by MS, IR, 1D and 2D NMR. The DPPH radical scavenging property of these compounds as well as vitamin C which served as the positive control group was determined. The result showed that Compound 3 exhibited the highest scavenging activity with an EC₅₀ value of 0.34 mM while Compounds 1 and 2 showed scavenging activity of 0.52 and 5.37 mM respectively. The EC₅₀ value for vitamin C is 1.36 mM. The result therefore showed that Compounds 1 and 2 possess better scavenging property than vitamin C and thus may serve as potent antioxidant drugs in oxidative stress management.



1



2

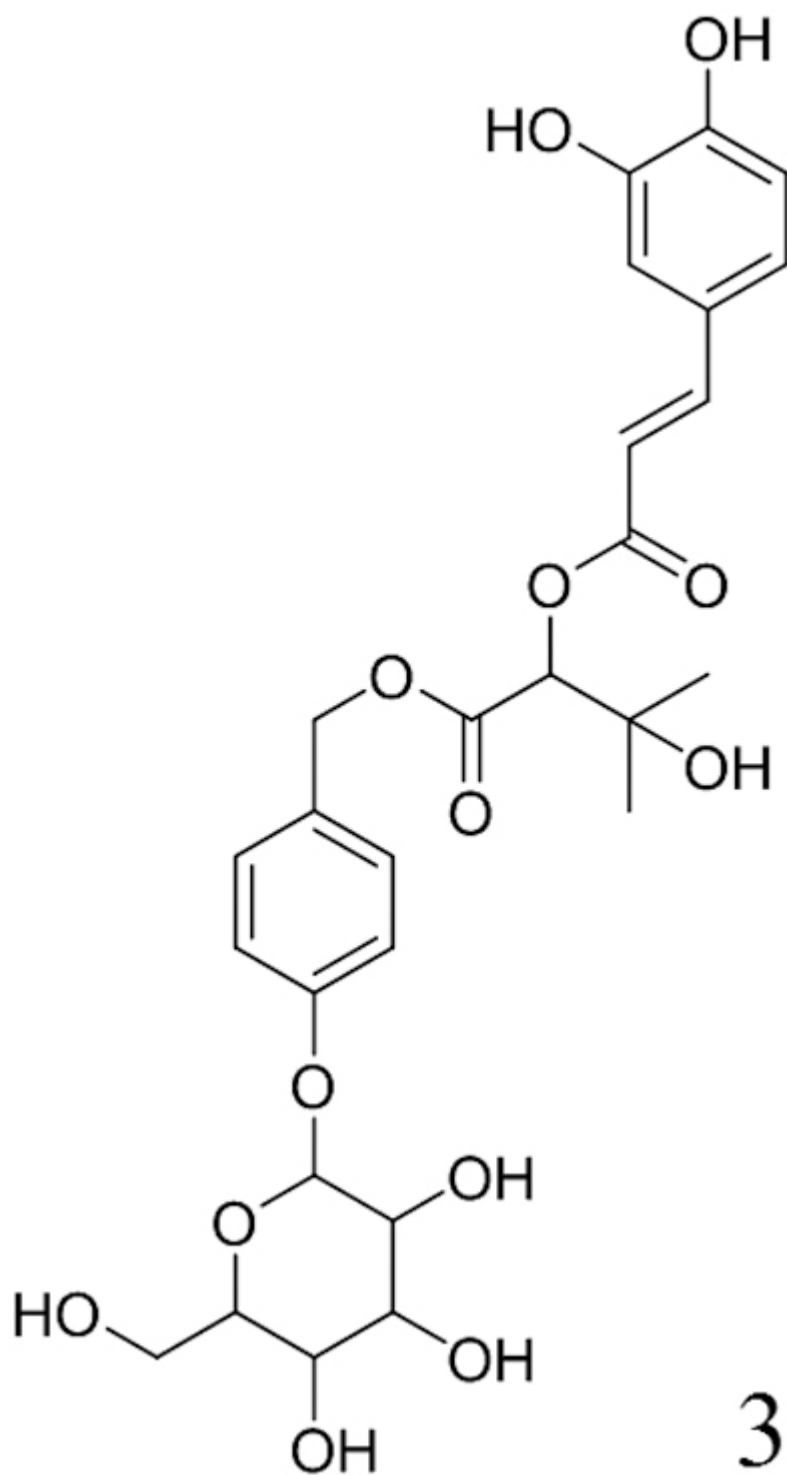


Fig. 1-3

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