

Cratoxylum glaucum and cratoxylum arborescens (Guttiferae)-two potential source of antioxidant agents.

ABSTRACT

Our detailed chemical studies on *Cratoxylum glaucum* and *C. arborescens* have revealed the presence of 5-demethoxycadensin G (1), fuscaxanthone C (2), b-mangostin (3), 3-geranyloxy-6-methyl-1,8-dihydroxyanthraquinone (4), vismiaquinone (5), 1,8-dihydroxy-3-methoxy-6-methylanthraquinone (6), stigmasterol (7) and friedelin (8). Structural elucidations of these compounds were achieved by using 1D and 2D NMR spectroscopic experiments. Antioxidant tests conducted on these two plant species gave promising results with both species indicating good antioxidant inhibiting properties. This is a first report on 5-demethoxycadensin G (1) and b-mangostin (3) from *Cratoxylum glaucum* as well as the antioxidant properties of these two species.

Keyword: *Cratoxylum glaucum*; *Cratoxylum arborescens*; Antioxidant agents.