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Isolation of Male Antifertility Compound in N-Butanol Fraction of Justicia gendarussa Burm. F. Leaves

Isolation of Male Antifertility Compound in N-Butanol Fraction of Justicia gendarussa Burm. F. Leaves

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Abstract

The isolation has been done on major compound of Justicia gendarussa Burm.f. (Acanthaceae) leaves, it used as male contraceptive in Papua as ethno medicine. Preclinical study showed activity as a male contraceptive. First information, J. gendarussa was known containing flavonoid beside alkaloid, steroid and mineral. Extraction used by percolation method with n-hexane, methanol, chloroform and n-butanol successively. Isolation and separation were done by column chromatography (silica, diaion and sephadex), MPLC and preparative HPLC. For the analyzing purpose, TLC, LC-UV and LC-MS were used. For the structure elucidation, 1H-13C NMR Inova 500 Mhz was used. Major compounds is 6,8-di-C-beta-L-arabinopyranosyl-4',5,7-trihydroxyflavone or 6,8-di-C-beta-L-arabinosyl-apigenine. Minor compounds is 6-C-beta-L-arabinopyranosyl-4',5,7-trihydroxy-8-C-beta-D-ylopiranosyl-flavone or 6-C-beta-L-arabinosyl-8-C-beta-D-xylosyl-apigenine. Nevertheless that compounds were not the novel compound, but this is for the first time known in J. gendarussa, so names proposed for both compound were gendarusin A and gendarusin B.

Keyword : Justicia, gendarussa, flavone, apegine, male, contraceptive,

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