

XANTHONES FROM ROOT BARKS OF *GARCINIA MANGOSTANA*

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ABSTRACT

CHEMICAL CONSTITUENTS XANTHONE FROM ROOT BARKS OF *GARCINIA MANGOSTANA*

Mangosteen fruit was widely used as medical purpose such as medicine to treat abdominal pain, diarrhea and infected wound. This was due to the presences of active compounds such as xanthones. Hence, root barks of *Garcinia mangostana* was chosen for further analysis. Detailed study on the cold extraction of ethyl acetate extract from root barks of *Garcinia mangostana* have resulted on the isolation of three compounds, which is α -mangostin (15), mangosharin (42) and 1,6-dihydroxy-3,7-dimethoxy-2-(3-methylbut-2-enyl)-xanthone (41). The structure of these compounds were identified and elucidated by using spectroscopy methods such as ^1H NMR, ^{13}C NMR, infrared (IR), and EIMS.