

The Marker Active Compound Identification of *Calotropis gigantea* Roots Extract as an Anticancer

Authors : Roihatul Mutiah, Sukardiman, Aty Widyawaruyanti

Abstract : *Calotropis gigantea* (L.) R. Br (Apocynaceae) commonly called as “Biduri” or “giant milk weed” is a well-known weed to many cultures for treating various disorders. Several studies reported that *C.gigantea* roots has anticancer activity. The main aim of this research was to isolate and identify an active marker compound of *C.gigantea* roots for quality control purpose of its extract in the development as anticancer natural product. The isolation methods was bioactivity guided column chromatography, TLC, and HPLC. Evaluated anticancer activity of there substances using MTT assay methods. Identification structure active compound by UV, ¹HNMR, ¹³CNMR, HMBC, HMQC spectral and other references. The result showed that the marker active compound was identical as Calotropin.

Keywords : calotropin, *Calotropis gigantea*, anticancer, marker active

Conference Title : ICBPPT 2016 : International Conference on Biochemical Pharmacology and Pharmaceuticals Testing

Conference Location : Kyoto, Japan

Conference Dates : November 10-11, 2016