Chemical constituents and biological activities of Glycosmis chlorosperma var. Elmeri (Merr.) stone (Rutaceae)

ABSTRACT

Detailed investigation on the leaves and barks of Glycosmis chlorosperma has led to the isolation and identification of a chalcone, dihydroglychalcone (1) and three sulphones - dambullin (2), sakambullin (3) and methylgerambullin (4), along with the common triterpene, stigmasterol. Compounds (1) (2) and (3) showed cytotoxic activity towards CEM-SS T-lymphoblastic cell lines. However, only dambullin (2) showed activity against pathogenic bacteria and fungi. We wish to report the isolation and bioassay results of the crude extracts and pure compounds.

Keyword: Antimicrobial; Antioxidant; Cytotoxic; Glycosmis chlorosperma; Rutaceae