

Some New Phenolic Compounds from *Sesbania grandiflora*

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Abstract

Sesbania grandiflora (L.) Pers (Leguminosae) is a traditionally plant that has been used since ancient time for the treatment of various diseases particularly caused by bacterial infections. This study aimed to isolate the purified compounds from the stembarks and the roots of *S. grandiflora*. Some new natural phenolic compounds, two arylbenzofuran type together with one biaryl type, have been isolated from the ethylacetate extracts of *Sesbania grandiflora* plant. The structure elucidation of the compounds were assigned by various spectroscopic methods notably 1D- and 2D-NMR, UV, IR, and ESI TOF-MS. These compound isolated here for the first time from *Sesbania grandiflora* plant.

Keywords: arylbenzofuran, biaryl compound, phenolics, *Sesbania grandiflora*