**Isolation and Structure Elucidation of A New Naturally Isolated Compound from *Sesbania grandiflora***

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This study aimed to isolate and purify the secondary metabolites from the ethyl acetate extract of *Sesbania grandiflora* stem barks. In a previous study, we isolated a new natural occurring binaphtol compound from the root of *S. grandiflora* for the first time*.* As part of our continuing investigations, we report the isolation and identification of another new phenolic compound obtained from the stem bark of *S. grandiflora.* The structure elucidation of the purified compound was performed using one- and two-dimensional nuclear magnetic resonance, ultraviolet and infrared spectroscopy, and electrospray ionization time-of-flight mass spectrometry.To the best of our knowledge, the isolated compound was identified as a new natural occurring phenolic compound isolated from the Leguminosae plant for the first time, particularly from *S. grandiflora*.

Keywords: new naturally isolated; phenolic compound; *Sesbania grandiflora*; structure elucidation