

## Isolation and Synthesis of 1'-S-1'-Acetoxychavicol Acetate as Potent Antidandruff Agent

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**Abstract :** The air-dried and powdered methanol solvent extraction of the rhizomes of *Alpinia galangal* is subjected to bio-assay guided fractionation and isolation yielded a known compound namely, 1'-S-1'-Acetoxychavicol acetate (1). The isolated known compound has been identified based on the physical, spectral data (IR, <sup>1</sup>H, <sup>13</sup>C, NMR and mass spectroscopy) and comparison with an authentic sample. Finally isolated 1'-S-1'-Acetoxychavicol acetate (1) was confirmed by synthesis. The crude methanol extract and identified known compound (1) were tested for antidandruff property against *Malassezia furfur* showed with MIC 1000 µg/mL and 7.81 µg/mL, respectively.

**Keywords :** *Alpinia galanga*, isolation, 1'-S-1'-Acetoxychavicol acetate, antidandruff activity, *Malassezia furfur*

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