

Planta Med 2012; 78 - PI226

DOI: 10.1055/s-0032-1320913

Sesterterpenoids and diterpenoids from the aerial parts of *Scutellaria coleifolia* Levl

SI Kurimoto ¹, JX Pu ², HD Sun ², Y Takaishi ¹, Y Kashiwada ¹

¹Graduate School of Pharmaceutical Sciences, University of Tokushima, 1-78 Shomachi, Tokushima 770-8505, Japan

²State Key Laboratory of Phytochemistry and Plant Resources in West China, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming 650201, Yunnan, P. R. China

[Congress Abstract](#)

Scutellaria plants belong to the Lamiaceae family and include about 350 species, which are known to contain bioactive diterpenoids and flavonoids.¹ As part of our study for searching new drug seeds, we have investigated chemical constituents of *Scutellaria coleifolia*. The EtOAc-soluble fraction of the aerial parts of this plant (130g) was separated by repeated column chromatography to give fourteen new compounds, along with three known compounds. Compounds **1** and **2** were sesterterpenoids with a γ -lactone moiety, structurally similar to manoalide derivatives. Although manoalide derivatives were isolated from marine sponges², compounds **1** and **2** appear to be the first example of this type of compounds isolated from a higher plant. The structure elucidation and biological activities of compounds **1-7** will be presented.

References

1. X. Shang *et al.*, *J. Ethnopharmacology* **2010**, 128, 279-313.
2. S.-J. Piao *et al.*, *J. Nat. Prod.* **2011**, 74, 1248-1254.