

A Novel Norditerpene from *Eupatorium adenophorum*

Ming-Zhong Wang, Xiang-Hai Cai, Guo-Shun Du, and Xiao-Dong Luo

State Key Laboratory of Phytochemistry and Plant Resources in West China, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming, Yunnan 650204, PR China

Reprint requests to Prof. Dr. Xiao-Dong Luo. Fax: +86-871-5150227. E-mail: xdluo@mail.kib.ac.cn

Z. Naturforsch. **2007**, 62b, 577–579; received October 3, 2006

A novel norditerpene was isolated from the flower of *Eupatorium adenophorum*, named (4a*R*,7*R*,8*S*,8a*R*)-1,2,4a,5,6,7,8,8a-octahydro-8-[3-methylenebut-4-yl]-4,4a,7,8-tetramethylnaphthalen-2(1*H*)-one (**1**). Its structure was established by extensive NMR experiments. Based on the diversity of the side chains, a possible biodegradation pathway for the compound from the clerodane skeleton is proposed.

Key words: (4a*R*,7*R*,8*S*,8a*R*)-1,2,4a,5,6,7,8,8a-Octahydro-8-[3-methylenebut-4-yl]-4,4a,7,8-tetramethylnaphthalen-2(1*H*)-one, *Eupatorium adenophorum*, Biodegradation, Clerodane