

New diarylheptanoids from *Amomum muricarpum* Elmer

Giang P.M., Son P.T., Matsunami K., Otsuka H.

Faculty of Chemistry, College of Natural Science, Vietnam National University, 19 Le Thanh Tong Street, Hanoi, Viet Nam; Graduate School of Biomedical Sciences, Hiroshima University, 1-2-3 Kasumi, Minami-ku, Hiroshima 734-8551, Japan

Abstract: Two new diarylheptanoids, designated muricarpones A and B, together with three known diarylheptanoids, 1,7-di-(3',4'-dihydroxyphenyl)-4-hepten-3-one, 1-(3',4'-dihydroxyphenyl)-7-(4'-hydroxyphenyl)-4-hepten-3-one, and 1,7-bis(p-hydroxyphenyl)-4-hepten-3-one, were isolated from the rhizomes of *Amomum muricarpum* ELMER (Zingiberaceae). Their structures were determined using spectroscopic analyses. © 2006 Pharmaceutical Society of Japan.

Author Keywords: *Amomum muricarpum*; Diarylheptanoid; Muricarpone; Zingiberaceae

Index Keywords: 1 (3',4' dihydroxyphenyl) 7 (4' hydroxyphenyl) 4 hepten 3 one; 1,7 di (3',4' dihydroxyphenyl) 4 hepten 3 one; heptane derivative; muricarpone a; muricarpone b; unclassified drug; article; drug determination; drug isolation; drug structure; medicinal plant; rhizome; spectroscopy; structure analysis; Zingiberaceae; *Amomum*; China; Chromatography, High Pressure Liquid; Circular Dichroism; Diarylheptanoids; Molecular Conformation; Plant Roots; Spectrometry, Mass, Fast Atom Bombardment; Spectrophotometry, Infrared

Year: 2006

Source title: Chemical and Pharmaceutical Bulletin

Volume: 54

Issue: 1

Page : 139-140

Cited by: 6

Link: Scopus Link

Chemicals/CAS: Diarylheptanoids; muricarpone A; muricarpone B

Correspondence Address: Otsuka, H.; Graduate School of Biomedical Sciences, Hiroshima University, 1-2-3 Kasumi, Minami-ku, Hiroshima 734-8551, Japan; email: hotsuka@hiroshima-u.ac.jp

ISSN: 92363

CODEN: CPBTA

DOI: 10.1248/cpb.54.139

PubMed ID: 16394570

Language of Original Document: English

Abbreviated Source Title: Chemical and Pharmaceutical Bulletin

Document Type: Article

Source: Scopus

Authors with affiliations:

1. Giang, P.M., Faculty of Chemistry, College of Natural Science, Vietnam National University, 19 Le Thanh Tong Street, Hanoi, Viet Nam, Graduate School of Biomedical Sciences, Hiroshima University, 1-2-3 Kasumi, Minami-ku, Hiroshima 734-8551, Japan
2. Son, P.T., Faculty of Chemistry, College of Natural Science, Vietnam National University, 19 Le Thanh Tong Street, Hanoi, Viet Nam
3. Matsunami, K., Graduate School of Biomedical Sciences, Hiroshima University, 1-2-3 Kasumi, Minami-ku, Hiroshima 734-8551, Japan
4. Otsuka, H., Graduate School of Biomedical Sciences, Hiroshima University, 1-2-3 Kasumi, Minami-ku, Hiroshima 734-8551, Japan

References:

1. Flora of China, 24, p. 354. , <http://efloras.org>
2. Itokawa, H., Morita, H., Midorikawa, I., Aiyama, R., Morita, M., (1985) Chem. Pharm. Bull., 33, pp. 4889-4893
3. Itokawa, H., Aiyama, R., Ikuta, A., (1981) Phytochemistry, 20, pp. 769-771
4. Martin-Cordero, C., Lopez-L?zaro, M., Agudo, M.A., Navarro, E., Trujillo, J., Ayuso, M.J., (2001) Phytochemistry, 58, pp. 567-569
5. Chen, J., Karchesy, J.J., Gonz?lez-Laredo, R., (1998) Planta Med., 64, pp. 74-75
6. Nomura, M., Tokoroyama, T., Kubota, T., (1981) Phytochemistry, 20, pp. 1097-1104
7. Kikuzaki, H., Kawai, Y., Nakatani, N., (2001) J. Nutr. Sci. Vitaminol., 47, pp. 167-171
8. Moon, S.S., Cho, S.C., Lee, J.Y., (2005) Bull. Korean Chem. Soc., 26, pp. 447-450