

## 1723-1 (Sesquiterpene)

Name: 5-Acetoxypalisadin B {Acetic acid 7-bromo-2-bromomethyl-3,6,6,9a-tetramethyl-2,5,5a,6,7,8,9,9a-octahydro-benzo[*b*]oxepin-5-yl ester}

Origin: *Laurencia* cf. *palisada* (Western Caroline Islands, Palau)<sup>(1)</sup>;

*Laurencia similis* (Sanya Bay, Hainan Province, China)<sup>(2)</sup>;

*Laurencia saitoi* (Hainan coastlines, China)<sup>(3)</sup>

*Laurencia flexilis* (Barrio Pangil, Currimao, Ilocos Norte, Philippine)<sup>(4)</sup>;

*Laurencia karlae* (Nansha Islands in the South China Sea, China)<sup>(5)</sup>;

*Laurencia snackeyi* (Pulau Besar, Melaka, Malaysia)<sup>(6)</sup>;

*Laurencia snackeyi* (Pulau Sipanggau, Semporna, Sabah, Malaysia)<sup>(6)</sup>;

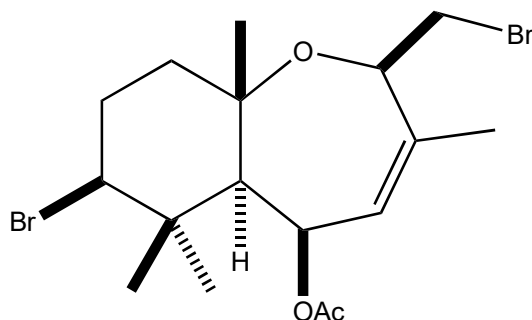
*Laurencia snackeyi* (Pulau Manukan, Kota Kinabalu, Sabah, Malaysia)<sup>(6)</sup>;

Formula: C<sub>17</sub>H<sub>26</sub>Br<sub>2</sub>O<sub>3</sub>

Mol. Wt.: 438.19

Opt. Rot.: [α]<sub>D</sub> -131.7 (CHCl<sub>3</sub>)<sup>(1)</sup>; [α]<sub>D</sub> -133.5 (CHCl<sub>3</sub>)<sup>(5)</sup>

Mp.: Oil<sup>(1)</sup>; 58-59<sup>(5)</sup>



### References and Notes

(1) Paul, V. J. and Fenical, W. 1980. Tetrahedron Lett., **21**, 2787-2790. Palisadins A, B and related monocyclofarnesol-derived sesquiterpenoids from the red marine alga *Laurencia* cf. *palisada*. (IR, <sup>1</sup>H-NMR, <sup>13</sup>C-NMR) (together with palisadin A, palisadin B, 5-acetoxypalisadin B, 12-hydroxypalisadin B, palisol, aplysistatin)

(2) Su, H., Shi, D.-Y., Li, J., Guo, S.-J., Li, L.-L., Yuan, Z.-H., and Zhu, X.-B. 2009. Molecules, **14**, 1889-1897. Sesquiterpenes from *Laurencia similis*. (<sup>1</sup>H-NMR, <sup>13</sup>C-NMR) (together with one new snyderane sesquiterpene, 14 known sesquiterpenes, isopalisol, luzonensol, palisadin B, aplysistatin, 4-hydroxypalisadin C, 5-acetoxypalisadin B, 8 aristolane sesquiterpenes)

(3) Su, H., Yuan, Z.-H., Li, J., Guo, S.-J., Deng, L.-P., Han, L.-J., Zhu, X.-B., and Shi, D. Y. 2009. Helv. Chim. Acta, **92**, 1291-1297. Sesquiterpenes from the marine red alga *Laurencia saitoi*. (together with 2-hydroxyluzofuranone, 2-hydroxyluzofuranone B, 4-hydroxypalisadin C, 2-bromo-γ-ionone, 4 known sesquiterpenes, aplysistatin, palisadin A, palisadin B, pacifigorgiol)

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**References and Notes**

(Continue from 1723-1)

- (4) de Nys, R., Wright, A. D., König, G. M., and Sticher, O. 1993. J. Nat. Prod., **56**, 877-883. Five new sesquiterpenes from the red alga *Laurencia flexilis*. (<sup>1</sup>H-NMR, <sup>13</sup>C-NMR) (together with 3,4-epoxypalisadin A, 5β-acetoxypalisadin A, 12-bromopalisadin B, palisadin C, 5β-hydroxypalisadin B, known palisadin A, palisadin B, 5β-acetoxypalisadin B, 12-hydroxypalisadin B, aplysisstatin)
- (5) Su, J.-Y., Zhong, Y.-L., Zeng, L.-M., Wu, H.-M., and Ma, K. 1995. Phytochemistry, **40**, 195-197. Terpenoids from *Laurencia karlae*. (together with laukarlaol (diterpene), aplysisstatin, palisadin A, palisadin B, 5-acetoxypalisadin B, 12-hydroxypalisadin B)
- (6) Masuda, M., Takahashi, Y., Okamoto, K., Matsuo, Y., and Suzuki, M. 1997. Morphology and halogenated secondary metabolites of *Laurencia snackeyi* (Weber-van Bosse) stat. nov. (Ceramiales, Rhodophyta) (together with palisadin A, aplysisstatin, 5-acetoxypalisadin B)