

5212 (Indole)

Name: 4,4',6,6'-Tetrabromo-2,2'-bis(methylthio)-3,3'-biindole;
3,3-bis (4,6-dibromo-2-methylthio)indole⁽¹⁾

{5,6,5',6'-Tetrabromo-2,2'-bis-methylsulfanyl-1*H*,1'*H*-[3,3']biindolyl}

Origin: *Laurencia brongniartii* (Komesu, Itoman, Okinawa Prefecture, Japan)⁽¹⁾;

Laurencia brongniartii (the coast of Kenting, south tip of Taiwan, China)⁽²⁾;

Laurencia brongniartii (Kikai Island, Kagoshima Prefecture, Japan)⁽³⁾;

Laurencia brongniartii (Ken-Ting National Park, south tip of Taiwan, China)⁽⁴⁾;

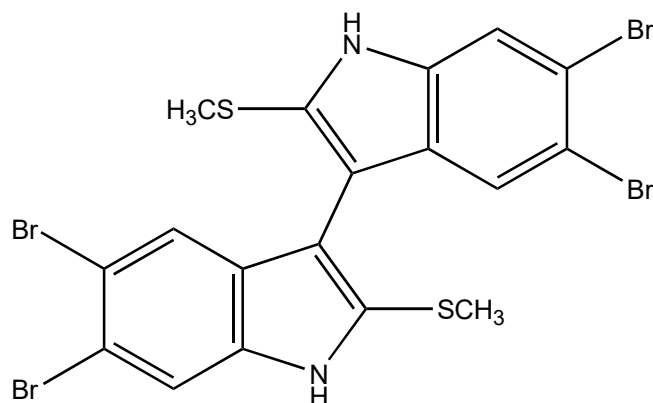
Laurencia brongniartii (the coast of Kenting, south tip of Taiwan, China)⁽⁵⁾;

Formula: C₁₈H₁₂Br₄N₂S₂

Mol. Wt.: 640.05

Opt. Rot.: [α]_D²⁵ 0 (CHCl₃)

Mp.: 186-188



References and Notes

(1) Tanaka, J., Higa, T., Bernardinelli, G., and Jefford, C. W. 1989. *Tetrahedron*, **45**, 7301-7310. Sulfur-containing polybromoindoles from the red alga *Laurencia brongniartii*. (**X-ray crystallographic analysis**) (UV, IR, ¹H-NMR, ¹³C-NMR, MS) (together with 2,4,6-tribromoindole, 2,3,4,6-tetrabromoindole, 4 sulfur-containing bromoindoles)

(2) Fang, H.-Y., Chiou, S.-F., Uvarani, C., Wen, Z.-H., Hsu, C.-H., Wu, Y.-C., Wang, W.-L., Liaw, C.-C., and Sheu, J. H. 2014. *Bull. Chem. Soc. Jpn.*, **68**, 1278-1280. Cytotoxic, anti-inflammatory, and antibacterial sulfur-containing polybromoindoles from the Formosan red alga *Laurencia brongniartii*. (together with 4,5,6-tribromo-2-methylsulfinylindole, 11 known sulfur-containing bromoindoles)

(3) Kubota, N. K., Iwamoto, H., Fukazawa, Y., and Uchio, Y. 2005. *Heterocycles*, **65**, 2675-2682. Five new sulfur-containing polybrominated indoles from the red alga *Laurencia brongniartii*. (together with new and known sulfur-containing bromoindoles)

(4) El-Gamel, A. A., Wang, W.-L., and Duh, C. Y. 2005. *J. Nat. Prod.*, **68**, 815-817. Sulfur-containing polybromoindoles from the Formosan red alga *Laurencia brongniartii*. (together with 5 new and 7 known sulfur-containing bromoindoles)

(5) Fang, H.-Y., Chiou, S.-F., Uvarani, C., Wen, Z.-H., Hsu, C.-H., Wu, Y.-C., Wang, W.-L., Liaw, C.-C., and Sheu, J. H. 2014. *Bull. Chem. Soc. Jpn.*, **68**, 1278-1280. Cytotoxic, anti-inflammatory, and antibacterial sulfur-containing polybromoindoles from the Formosan red alga *Laurencia brongniartii*. (together with 4,5,6-tribromo-2-methylsulfinylindole, 11 known sulfur-containing bromoindoles)