

Total synthesis of the cytostatic marine natural product dibromophakellstatin via three-component imidazolidinone anellation

Michael Zöllinger, Peter Mayer, and Thomas Lindel*

Department of Chemistry and Biochemistry, Ludwig Maximilian University of Munich, Butenandtstr. 5-13, 81377 Munich, Germany. Fax (+49) 89/2180-77734, E-mail: thomas.lindel@cup.uni-muenchen.de

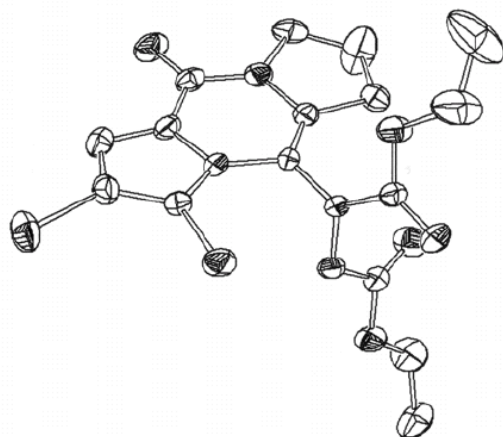
Supporting Information

Crystal structure analyses (Ortep drawings) of compounds (CCDC numbers) 614045 (**4**), 614046 (**8**), 614047 (**9**), 614042 (**12**), 614041 (**13**), 252066 (**15**), 252067 (**16**), 252091 (**18**), 252090 (**19**), 614040 (**20**), 614039 (**32**), 614044 (**33**), 614043 (**37**).

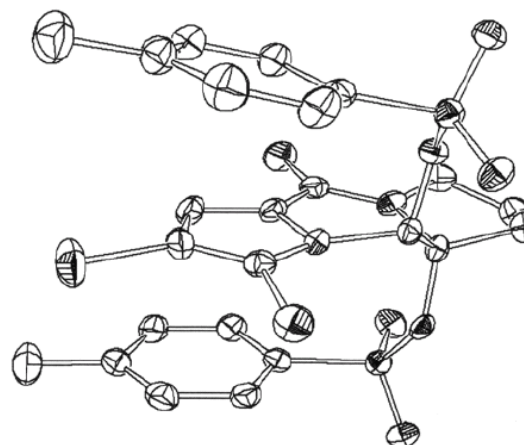
¹H and ¹³C NMR spectra of compounds **1, 4, 5, 6, 8, 9, 12, 13, 15, 36, 37**.

General experimental methods. Melting points are uncorrected. NMR spectra were referenced on solvent signals. All measurements were carried out at 300 K. Prior to use, DCM was distilled from CaH₂, THF from Na/benzophenone. Commercially available chemicals were used without further purification.

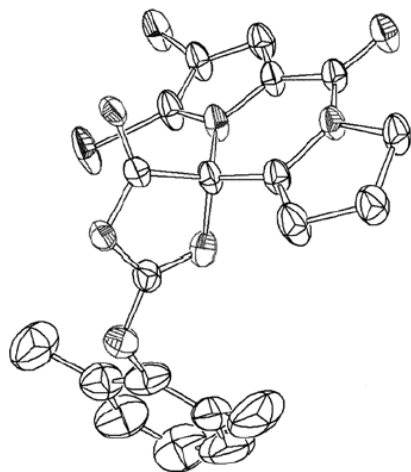
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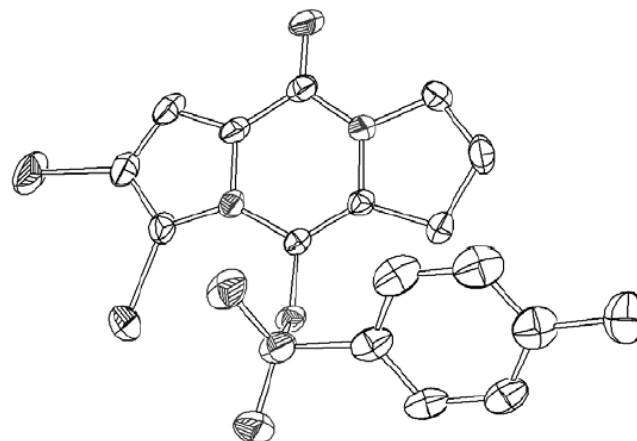
4 (CCDC 614045)



9 (CCDC 614047)

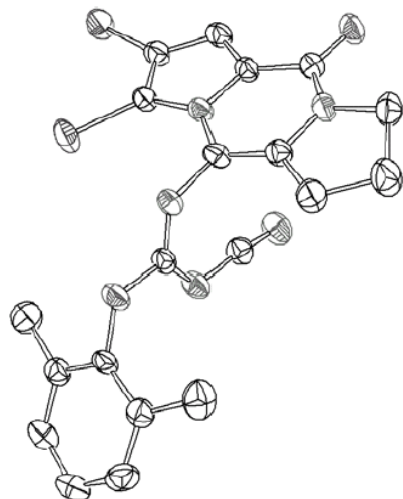


12 (CCDC 614042)

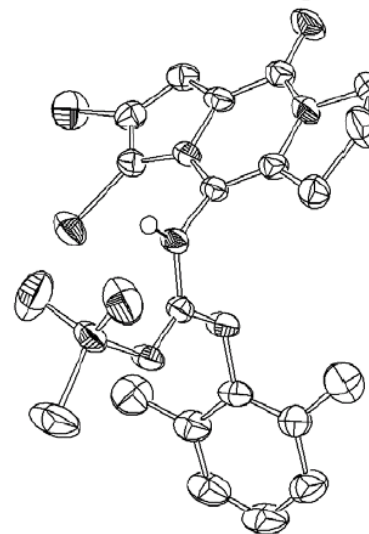


8 (CCDC 614046)

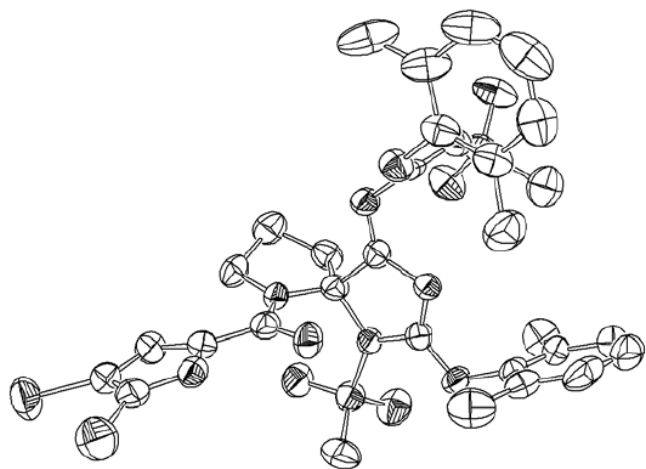
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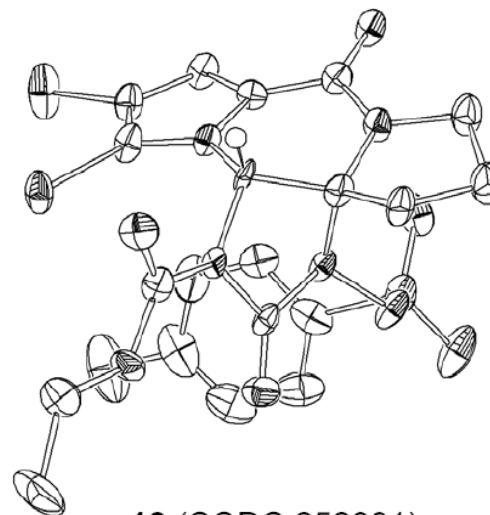
13 (CCDC 614041)



15 (CCDC 252066)

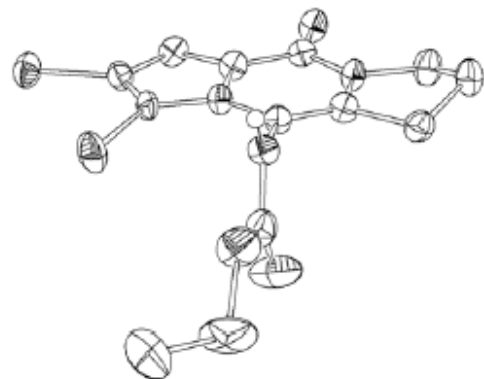


16 (CCDC 252067)

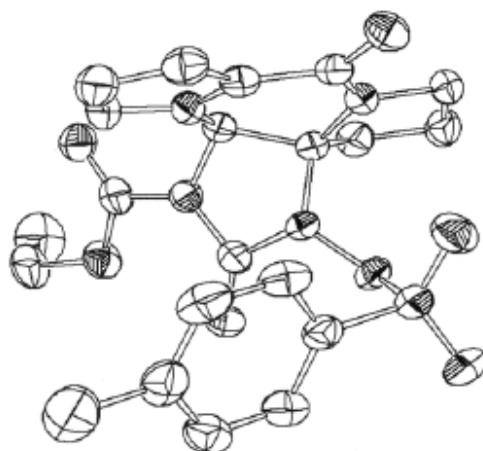


18 (CCDC 252091)

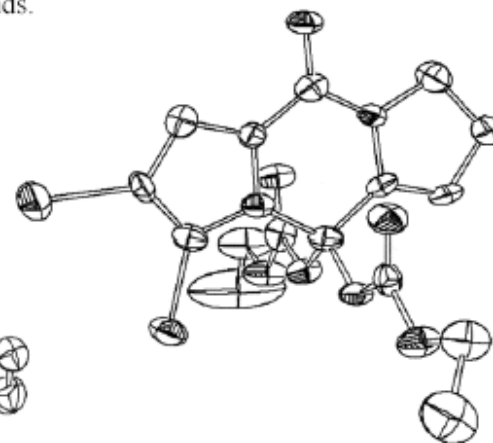
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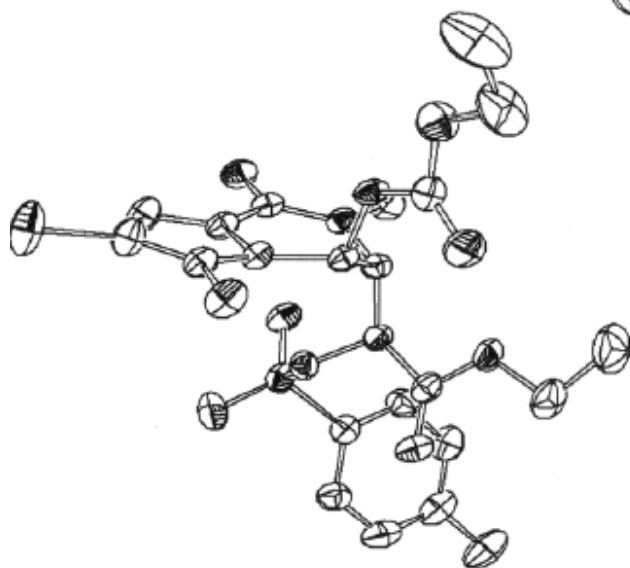
19 (CCDC 252090)



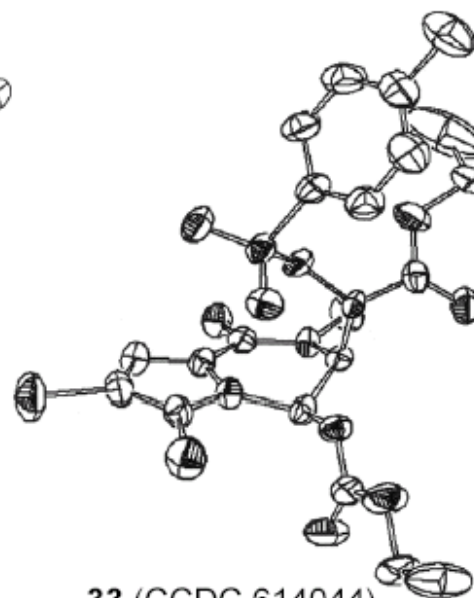
37 (CCDC 614043)



20 (CCDC 614040)



32 (CCDC 614039)



33 (CCDC 614044)

