



Citation for published version:

Ahmed, S, Nur-e-Alam, M, Parveen, I, Threadgill, M, Orton, JB, Hafizur, RM, Khan, I, Al-Oqail, M & Al-Rehaily, AJ 2023, 'Erratum: Compounds Related to Saudin and Three New Series of Diterpenoids from *Clutia lanceolata* (Journal of Natural Products (2023) 86: 5 (1129–1149) DOI: 10.1021/acs.jnatprod.2c00761)', *Journal of Natural Products*, vol. 86, no. 10, pp. 2421-2422. <https://doi.org/10.1021/acs.jnatprod.3c00807>

DOI:

[10.1021/acs.jnatprod.3c00807](https://doi.org/10.1021/acs.jnatprod.3c00807)

Publication date:

2023

Document Version

Peer reviewed version

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Correction to “Compounds Related to Saudin and Three New Series of Diterpenoids from *Clutia lanceolata*”

Sarfraz Ahmed, Mohammad Nur-e-Alam, Ifat Parveen, Michael D. Threadgill, James B. Orton, Rahman M. Hafizur, Israr Khan, Mai Al-Oqail, and Adnan J. Al-Rehaily*

J. Nat. Prod. **2023**, *86*, 1129–1149, DOI: 10.1021/acs.jnatprod.2c00761

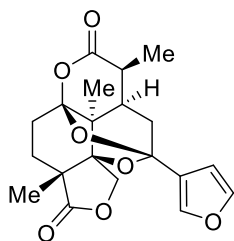
Re-examination and re-interpretation of the NOESY NMR data for **11** and **12** has led to re-assignment of the relative stereochemical configurations at C-5 and C-10 for both compounds.

The text discussing the relative configurations for compound **11** (lanceolide K) (p 1139) should be replaced with the following: A strong NOESY cross-peak between H-5 and H₃-18 established these as being *cis* (β -oriented) on the cyclohexane ring. Thus, the γ -lactone ring was established as being fused *cis* on the cyclohexane ring. A NOESY cross-peak was also observed H-5 to H-6_{Pro-R} (δ_{H} 4.23) (β -oriented) but not to H-6_{Pro-S} (δ_{H} 4.27) (α -oriented), helping to assign the signals for these diastereotopic protons. In the δ -lactone ring, a strong NOESY interaction between H-8 and H-12 indicated that these are both *cis* and that the ring must be in a (flattened) conformation for this strong pro α -stern interaction. Thus, the methyl at C-8 and the furan ring at C-12 must both be on the β -face (the configuration at C-12 having been assumed from earlier analogs). Strong NOESY cross-peaks were also evident from both H-8 and H-12 to H-9, so H-9 was assigned as α -oriented, and the bond from C-9 to the cyclohexane must be β -oriented. This single C–C bond allows rotation, and so the other NOESY interactions between the two six-membered rings would be reasonable (e.g., H₃-20 to H₃-17 H-8, H-9, and both H₂-11; H-5 to H-8). The NOESY cross-peak

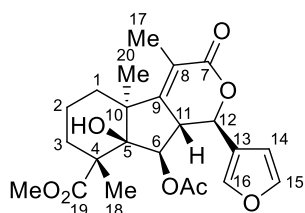
from H-5 to only one H-11 proton signal (δ_{H} 1.98) shows that this proton is on the β -face of the δ -lactone. The MM2-minimized model has this proton equatorial, which is consistent with its signal having only one large coupling ($J_{\text{gem}} = 9.9$ Hz). Thus, H-11 (δ_{H} 1.89) is α -oriented/axial, which was supported by its signal having three large couplings (J_{gem} and $2 \times J_{\text{ax-ax}}$).

The text discussing the relative configurations for compound **12** (lanceolide L) (pp 1140-1141) should be replaced with the following: The configuration of **12** was assigned using MM2-minimized models of the various possible diastereoisomers, the NOESY spectrum, and ^1H - ^1H coupling constants. In the cyclohexane/ γ -lactone bicyclic ring, H-19 (δ_{H} 3.79) gave strong NOESY cross-peaks with H₃-18 and with H-5. Accordingly, H-5, H-19_{Pro-S} (δ_{H} 3.79), and Me-18 were all found to be *cis* to each other and on the β -face. This placed H-19_{Pro-R} (δ_{H} 4.09) on the α -face, and a strong NOESY cross-peak to H₃-20 located the latter on the α -face also. In the δ -lactone, a NOESY connection was seen between H-8 and H-12, showing that they were *cis* (and α -oriented); so, the furan ring and Me-17 are β -oriented. The models used suggested H-11 (δ_{H} 1.96) and H-12 as being almost eclipsed in the deformed boat conformation of the δ -lactone ring. This was consistent with the former resonating as a broad quartet with a *J* value appropriate for being eclipsed with H-9 and H-12. Thus, H-11 (δ_{H} 2.12) was assigned as being on the β -face. NOESY interactions were observed from H-9 to H-8 and to H-11 (δ_{H} 1.96), confirming that all are on the α -face. The absolute configuration of compound **12** was assigned by analogy with those of **1** and **2**.

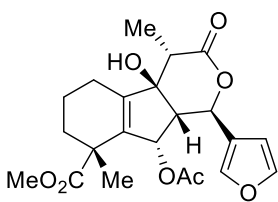
Figure 1 should be replaced to show the correct configurations of compounds **11** and **12**.



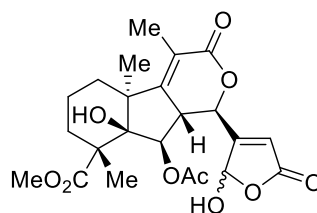
Saudin



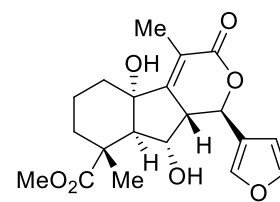
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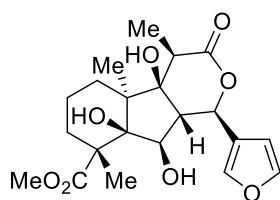
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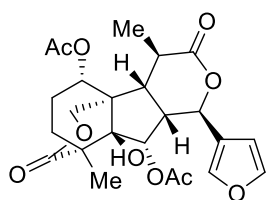
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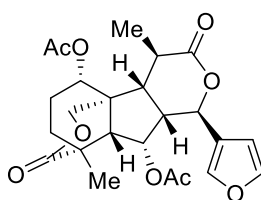
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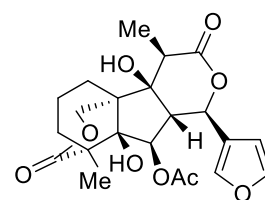
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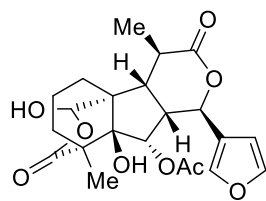
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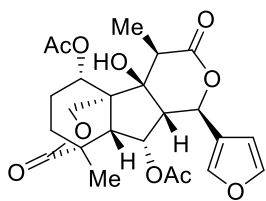
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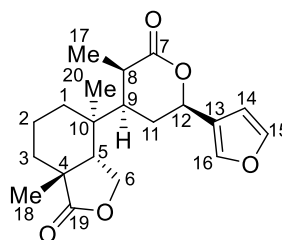
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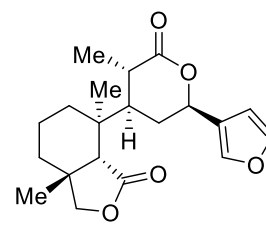
9



10



11



12

Figure 1. Structures of saudin and of the new diterpenoids **1-12**, isolated from *C. lanceolata*.

We are grateful to Prof. Chao Li (National Institute of Biological Sciences, Beijing, China) for bringing this to our attention initially.