REVISED STEREOSTRUCTURES OF LUTEUSINS C AND D

Eiji YOSHIDA, Haruhiro FUJIMOTO,* and Mikio YAMAZAKI

Faculty of Pharmaceutical Sciences, Chiba University, 1-33, Yayoi-cho,
Inage-ku, Chiba 263, Japan

Absolute configurations at positions 2' and 5' in the two new azaphilones, luteusins C and D, from an Ascomycete, *Talaromyces luteus*, have been revised to (*R*) and (*S*) from (*S*) and (*R*), respectively.

KEY WORDS fungal metabolite; Ascomycete; *Talaromyces luteus*; luteusin; azaphilone

We reported the structures of luteusins C and D isolated from an Ascomycete, *Talaromyces luteus*.¹⁾ In the report, the structures of luteusins C and D ((*Z*)-isomer at position 11 of C) were deduced to be **1a** and **2a**, respectively. Absolute configurations at positions 8, 2', and 5' in **1a** and **2a** were deduced as (*S*), (*S*), and (*R*), on the basis of the nuclear Overhauser effects (NOE) between CH₃ attached to C-7 having (*S*) configuration and H-8, between H-8 and H-2', and between H-2' and H-5' of the tetrahydro derivative of luteusin C.¹⁾ However, we recently received information from a Kyowa Hakko research group which led us to reexamine the NOE experiment, because no NOE were observed between H-8 and H-2' in their compounds, similar to luteusins C and D, isolated from a micro-organism.²⁾ Our reexamination in a difference NOE experiment on luteusin A instead of the tetrahydro derivative showed no significant NOE between H-8 and H-2', although significant NOEs were observed between CH₃ attached to C-7 and H-8, and between H-2' and H-5'.

Thus, the absolute configurations at positions 2' and 5' in luteusins C and D are believed not to be (*S*) and (*R*), but (*R*) and (*S*), respectively. Accordingly, the absolute configurations of luteusins C and D should be revised to **1** being (7*S*,8*S*,9*E*,11*E*,13*S*,2'*R*,5'*S*) and **2** being (7*S*,8*S*,9*E*,11*Z*,13*S*,2'*R*,5'*S*), respectively.

REFERENCE AND NOTE

- 1) Yoshida E., Fujimoto H., Yamazaki M., *Chem. Pharm. Bull.*, **44**, 284-287 (1996).
- 2) Private communication from Dr. Y. Uosaki, Kyowa Hakko Kogyo Co., Ltd., Asahi-cho, Machida, Tokyo 194, Japan.

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* To whom correspondence should be addressed.