

Corrigendum

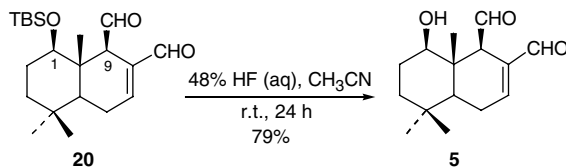
**Corrigendum to “Enantioselective synthesis
of 1(*R*)-hydroxypolygodial”**
[Tetrahedron Lett. 46 (2005) 4061]

Carmela Della Monica, Giorgio Della Sala, Deborah D’Urso,
Irene Izzo and Aldo Spinella*

Dipartimento di Chimica, Università di Salerno, Via S. Allende, 84081 Baronissi (Salerno), Italy

Available online 3 February 2006

Recently, we published in this journal a letter describing the enantioselective preparation of 1(*R*)-hydroxypolygodial (**5**). In the last step of the synthesis the hydroxy group was deprotected using TBAF. However, during synthetic efforts aimed to the preparation of related analogs, we realized that the reported procedure does not afford the desired compound **5**. In fact, although spectroscopic analysis was in good accordance with the structure of the expected compound, we discovered that TBAF caused epimerization at C-9, due to the basicity of F⁻. We found that the correct condition to yield the desired compound, avoiding epimerization, consisted in using HF in the deprotection step.



¹H NMR NOE experiments allowed inferring the correct stereochemistry of the obtained compound **5**. In fact, irradiation of H-1 (δ 3.62 ppm) led to the enhancement of the signal due to H-9 (δ 3.20 ppm). Furthermore, irradiation of H-5 (δ 1.25 ppm) caused enhancements of both signals at δ 3.20 ppm (H-9) and at δ 3.62 ppm (H-1). Therefore, H-1, H-9, and H-5 are all in *cis*-relationship confirming that these deprotection conditions (48% HF (aq), CH₃CN, rt) do not cause epimerization at C-9.

Analytical data given in note 15 on page 4063 are incorrect and correct data are given below:

Physical data of 1(*R*)-hydroxypolygodial (**5**): $[\alpha]_D^{25} -8.2$ (*c* 1.0, CHCl₃). ¹H NMR (CDCl₃, 400 MHz): δ 0.88 (3H, s, CH₃), 0.91 (3H, s, CH₃), 0.94 (3H, s, CH₃), 1.25 (1H, dd, *J* = 4.9, 11.4 Hz, H-5), 1.36 (1H, m, H-3), 1.51 (1H, ddd, *J* = 3.2, 3.2, 13.5 Hz, H'-3), 1.56–1.66 (2H, m, H-2 and H'-2), 2.37 (1H, dddd, *J* = 2.4, 3.8, 11.4, 20.0 Hz, H-6), 2.45 (1H, *m*, H'-6), 3.20 (1H, br s, H-9), 3.62 (1H, dd, *J* = 7.6, 8.2 Hz, H-1), 7.09 (1H, m, H-7), 9.37 (1H, s, OHCC-8), 9.82 (1H, d, *J* = 3.2 Hz, OHCC-9). ¹³C NMR (CDCl₃, 62.5 MHz): δ 9.3 (q), 22.0 (q), 24.8 (t), 27.8 (t), 32.7 (q), 32.8 (s), 39.6 (t), 43.5 (s), 48.5 (d), 59.8 (d), 79.8 (d), 139.5 (s), 153.1 (d), 192.9 (d), 203.9 (d). ESIMS: *m/z* 273 [M+Na]⁺.

A full account, with experimental details, will be published elsewhere.

DOI of original article: [10.1016/j.tetlet.2005.04.020](https://doi.org/10.1016/j.tetlet.2005.04.020)

* Corresponding author. Tel.: +39 089 965373; fax: +39 089 965296; e-mail: spinella@unisa.it