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Corrigendum

Corrigendum to "A concise synthesis of L-4,4-difluoroglutamine" [Tetrahedron Lett. 42 (2001) 8625–8627]†

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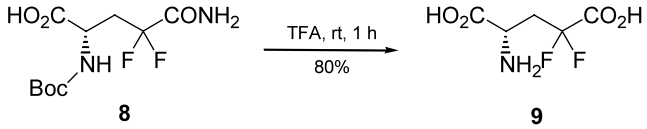
Recently, we were led to re-examine our structural assignments of the final product reported in the above publication: further detailed analyses showed that the product obtained after amino group deprotection was actually L-4,4-difluoroglutamic acid **9** due to concomitant hydrolytic cleavage of the amide group. This problem could be cicumvented by using a different amino protecting group which could be removed under non hydrolytic conditions.



8 **9**

Analytical data given in reference 23 on page 8627 correspond indeed to L-4,4-difluoroglutamic acid **9** and are in agreement with the previously described data for the same compound.[1,2]
Molecular mass for L-4,4-difluoroglutamic acid **9** is M = 183 u versus M = 182 u for L-4,4-difluoroglutamine **1**.
Supplementary MS and microanalysis data are given below.
MS (DCI, NH_3): m/z 200 $(M-H_2O+NH_3NH_4)^+$, 183 $(M-H_2O+NH_4)^+$ where M = 183 u.
MS (DCI, ND_3): m/z 209 $(M'-D_2O+ND_3ND_4)^+$, 189 $(M'-D_2O+ND_4)^+$ where M′ = 187 u for deuteriated L-4,4-difluoroglutamic acid.
MS (ESI, negative mode): m/z 182 $(M-H)^-$.
Anal. calcd for $C_5H_7F_2NO_4$: C, 32.80; H, 3.85; N, 7.65. Found: C, 32.52; H, 3.87; N, 7.32.

The authors regret this misinterpretation which was due to same MS (DCI, NH_3) analysis results for compounds **1** and **9**.

However, the analyses of the Boc-protected amide **8** are consistent with the proposed structure and full experimental details will be published elsewhere.

References

1. Konas, D. W.; Coward, J. K. *Org. Lett.* **1999**, *1*, 2105–2107.
2. Ding, Y.; Wang, J.; Abboud, K. A.; Xu, Y.; Dolbier, W. R.; Richards, N. G. J. *J. Org. Chem.* **2001**, *66*, 6381–6388.

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