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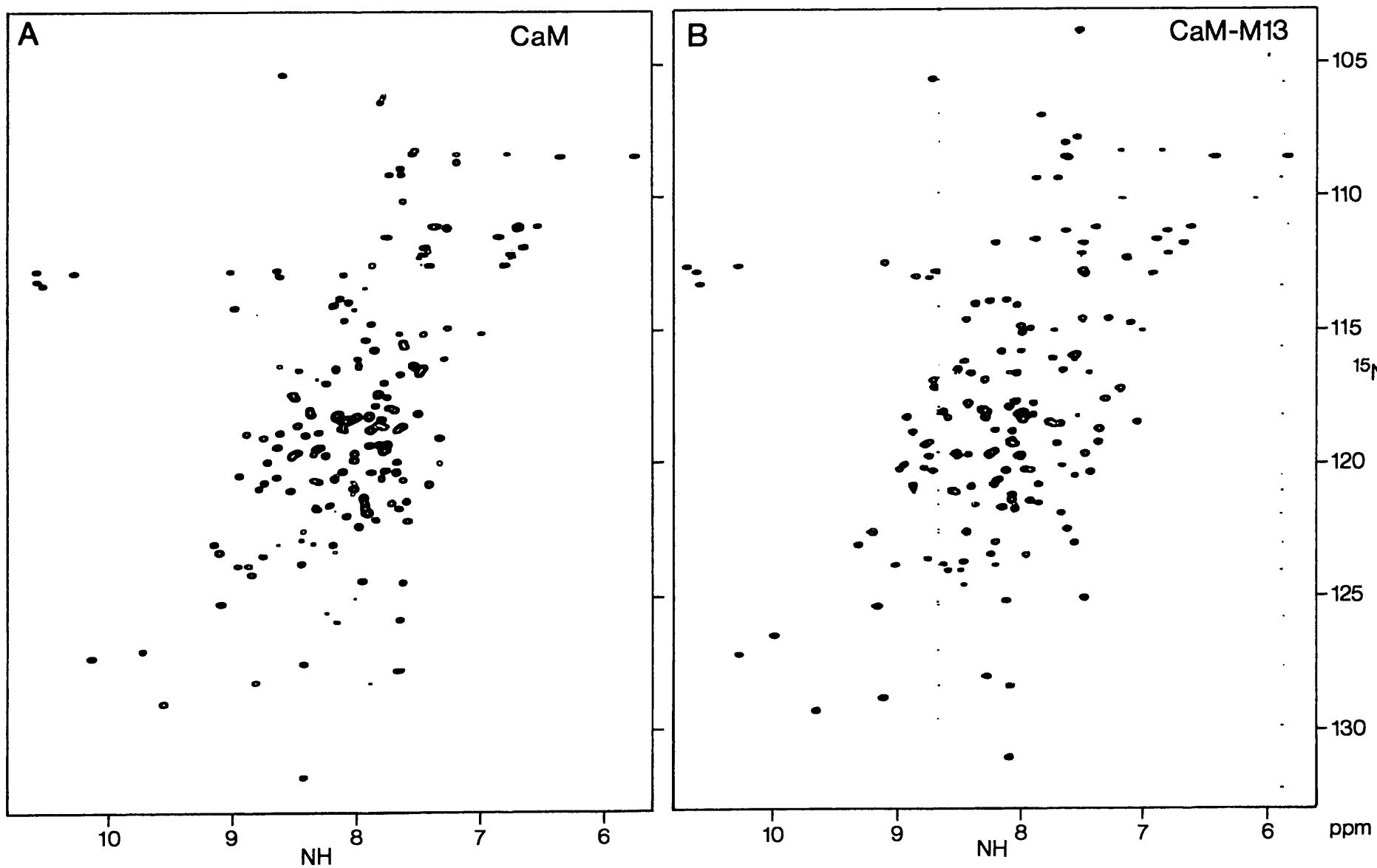
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Supplementary Material for the microfilm edition:

Supplementary Figure 1. ^{15}N - ^1H shift correlation 2D spectra of CaM (A) and the CaM-M13 complex (B).

Supplementary Figure 2. Demonstration of the use of 4D HCACON to remove ambiguities in the interpretation of 3D HCACO and HCA(CO)N spectra.

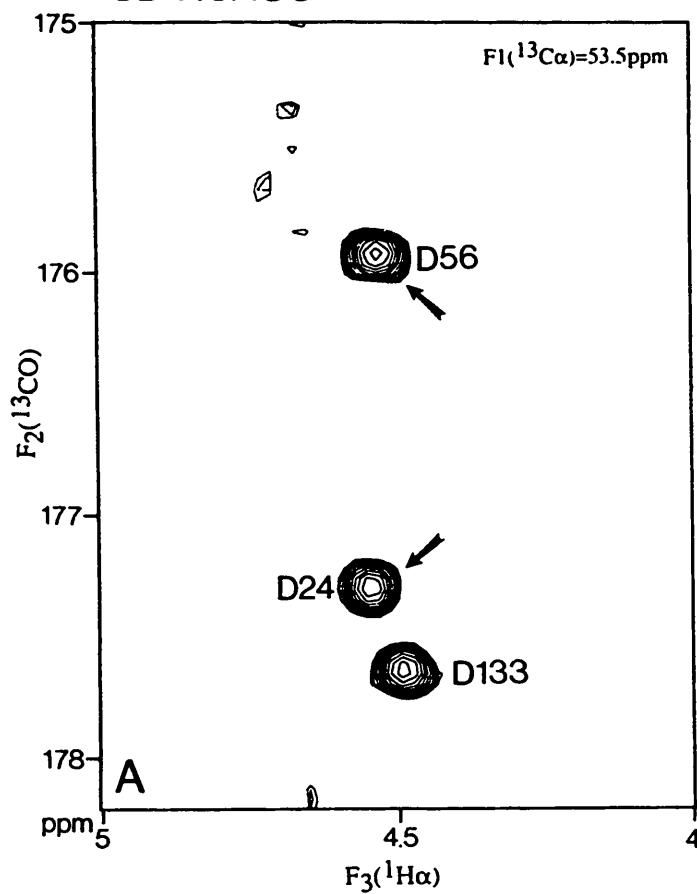
Residues D24 and D56 have nearly identical chemical shifts for both $\text{C}\alpha$ and $\text{H}\alpha$, making it impossible to assign which of the two carbonyl resonances (177.3 and 176.0 ppm) correlates with which ^{15}N (130.9 and 112.7 ppm), from the 3D HCACO (A) and HCA(CO)N (B) spectra. However, it is clear from the 4D HCACON (C and D) that the carbonyl carbon at 177.3 ppm has a correlation to the nitrogen at 112.7 ppm and the carbonyl carbon at 176.0 ppm correlates with the ^{15}N at 130.9 ppm.



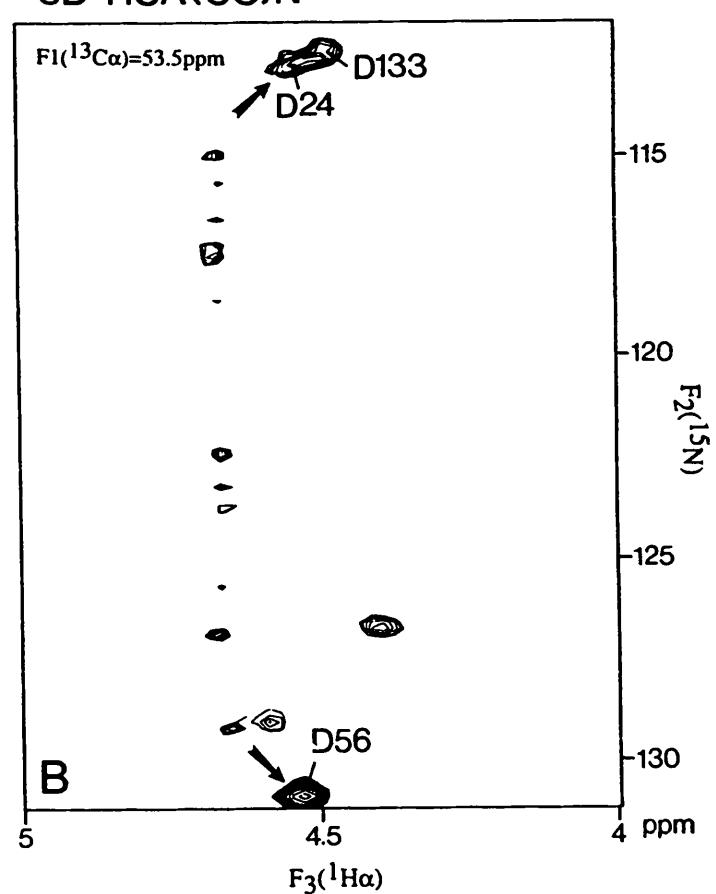
2D $^1\text{H}-^{15}\text{N}$

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3D HCACO



3D HCA(CO)N



4D HCACON

