

¹⁵N and ¹³C- SOFAST-HMQC editing enhances 3D-NOESY sensitivity in highly deuterated, selectively [¹H,¹³C]-labeled proteins

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Cm: Methyl C; Hm: Methyl H;
N: Amide N; Hn: Amide H;
Ca: Aromatic C; Ha: Aromatic H

Experiment list:

1. 2D ¹⁵N HMQC for amide HN
2. 2D ¹³C HMQC for methyl CH₃
3. 2D ¹³C HMQC for aromatic ring
4. 2D ¹⁵N/¹³C HMQC for both amide HN and methyl CH₃

5. 3D NOESY-BTOSY for Hall(F1)- N(F2)Hn(F3)
6. 3D HMQC-NOESY-HMQC for Cm(F1)- Cm(F2)Hm(F3)
7. 3D HMQC-NOESY-HMQC for Ca(F1)- Cm(F2)Hm(F3)
8. 3D HMQC-NOESY-HMQC for N(F1)- Cm(F2)Hm(F3)
9. 3D HMQC-NOESY-HMQC for Cm(F1)- N(F2)Hn(F3)
10. 3D HMQC-NOESY-HMQC for Ca(F1)- N(F2)Hn(F3)
11. 3D HMQC-NOESY-HMQC for N(F1)- N(F2)Hn(F3)
12. 3D HMQC-NOESY-HMQC for NCm(F1)-NCm(F2)HnHm(F3)

14. 3D NOESY-HMQC for Hall(F1)- Cm(F2)Hm(F3)
15. 3D NOESY-HMQC for HnHa(F1)- Cm(F2)Hm(F3)
16. 3D NOESY-HMQC for Hm(F1)- Cm(F2)Hm(F3)
17. 3D NOESY-HMQC for HnHaHM(F1)- Cm(F2)Hm(F3)
18. 3D NOESY-HMQC for HnHa(F1)- N(F2)Hn(F3)
19. 3D NOESY-HMQC for Hall(F1)- N(F2)Hn(F3)
20. 3D NOESY-HMQC for Hall(F1)-NCm(F2)HnHm(F3)
21. 3D NOESY-HMQC for HnHaHM(F1)-NCm(F2)HnHm(F3)
22. 3D NOESY-HMQC for Ha(F1)-NCm(F2)HnHm(F3)
23. 3D NOESY-HMQC for Hm(F1)- Ca(F2)Ha(F3)
24. 3D NOESY-HMQC for Hm(F1)- N(F2)Hn(F3)

Note: move me aside to see a dialog
for setup these experiments!