

Notes to the Exercise

1. Install NMRFAM-Sparky
2. Open *.ucsf files and adjust spectral properties (S/N ratio, colors, levels). Create *.save and *.proj files.
3. Inspect the skeleton of solved compound (attached figure).
4. Using Sparky assign max. of ^1H and ^{13}C resonances, determine position of 2 fragments. Specify stereochemistry of all ^1H signals/substituents.

Few comments

- HSQC spectrum is not fully evolved for all crosspeaks :-(
- Two bond couplings in HMBC are in some cases smaller than three-bond.
- For crosspeaks in t1-noise check their presence in opposite dimension.
- Always double check the individual assignments steps!
- Solvent chloroform with water residuals, $t = 5^{\circ}\text{C}$.

Requested outputs

1. Complete assignment of crosspeaks → send *save files.
2. Build final structure of the molecule.
3. Prepare a comprehensive report with comments describing logically the procedure of your work. Wrap your report together with *save files and deposit it via IS.