

Supplementary Materials for

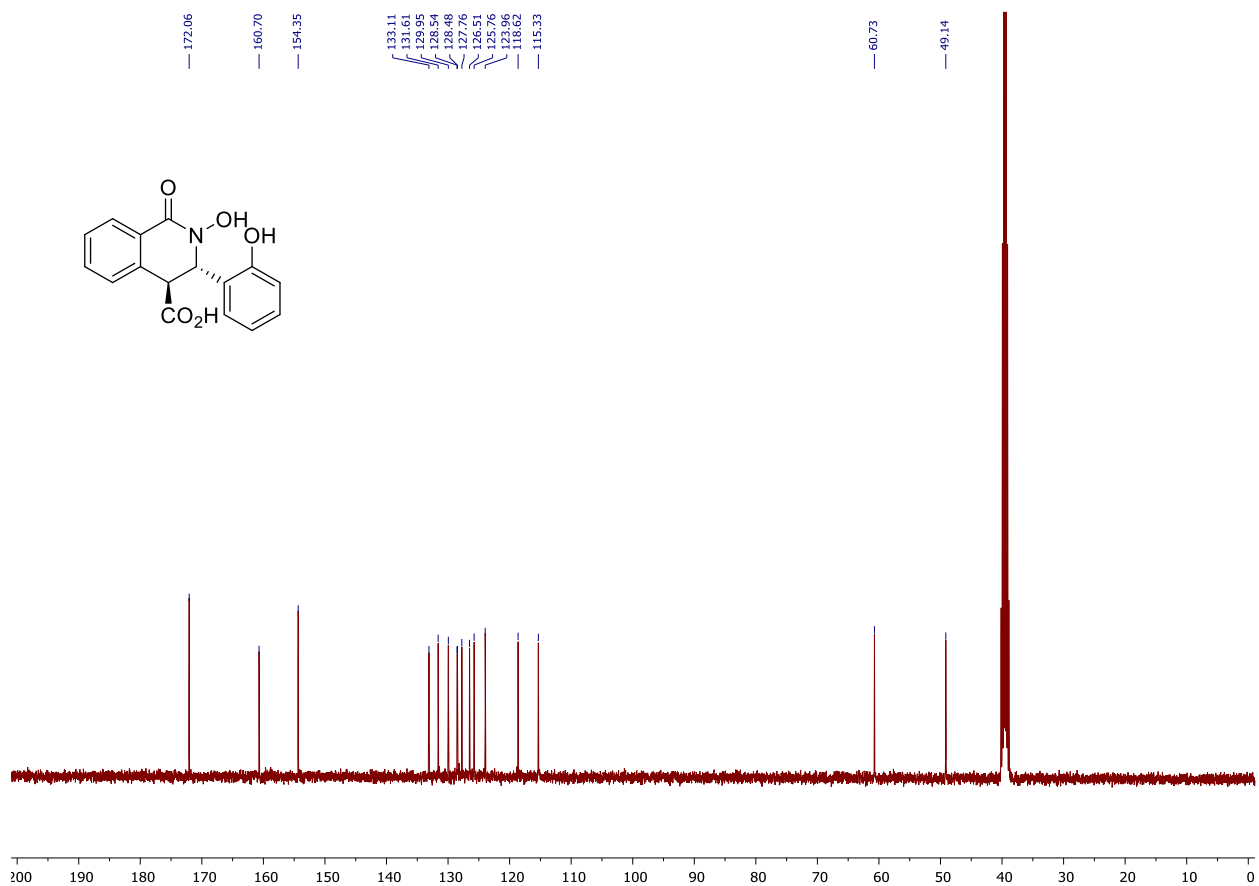
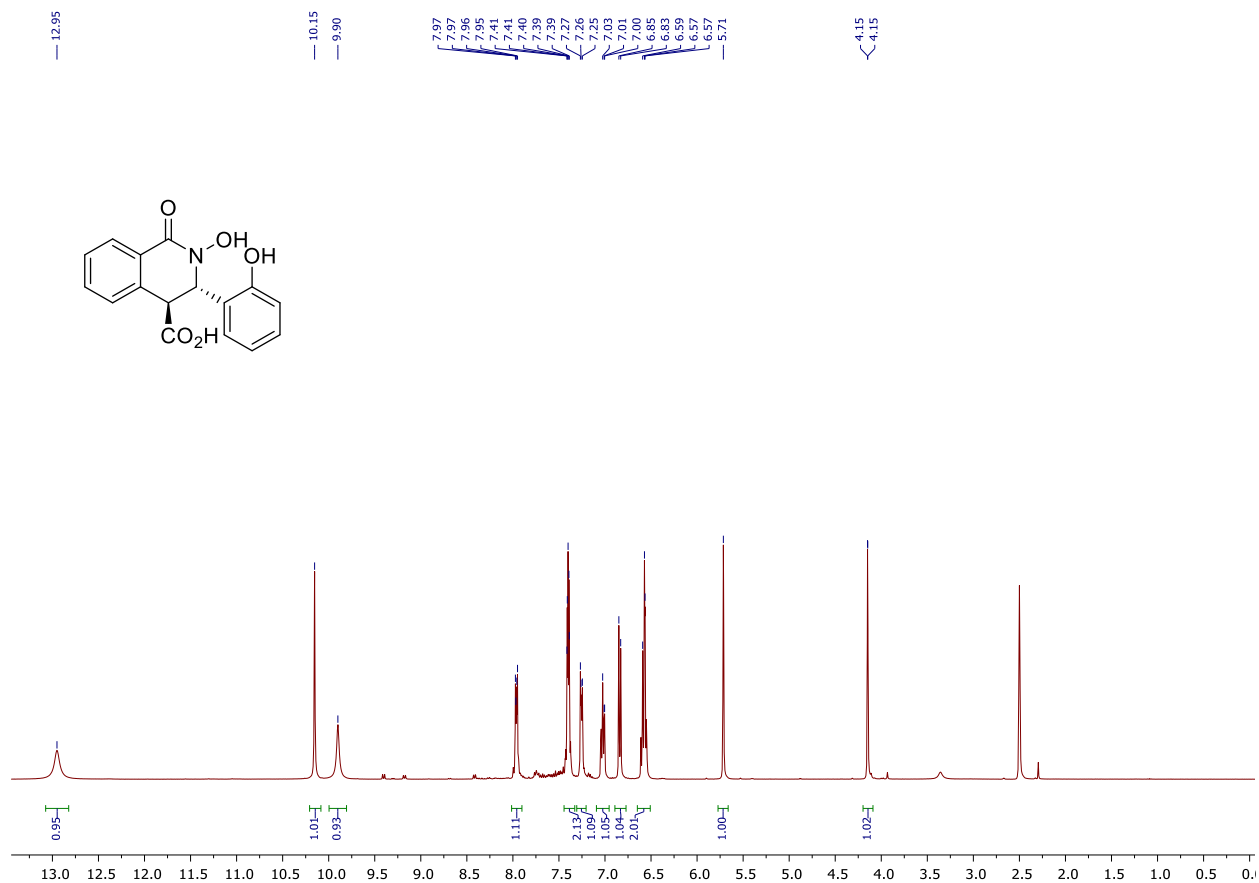
Conjugates of iron-transporting *N*-hydroxylactams with ciprofloxacin

Olga Bakulina, Anton Bannykh, Ekaterina Levashova and Mikhail Krasavin*

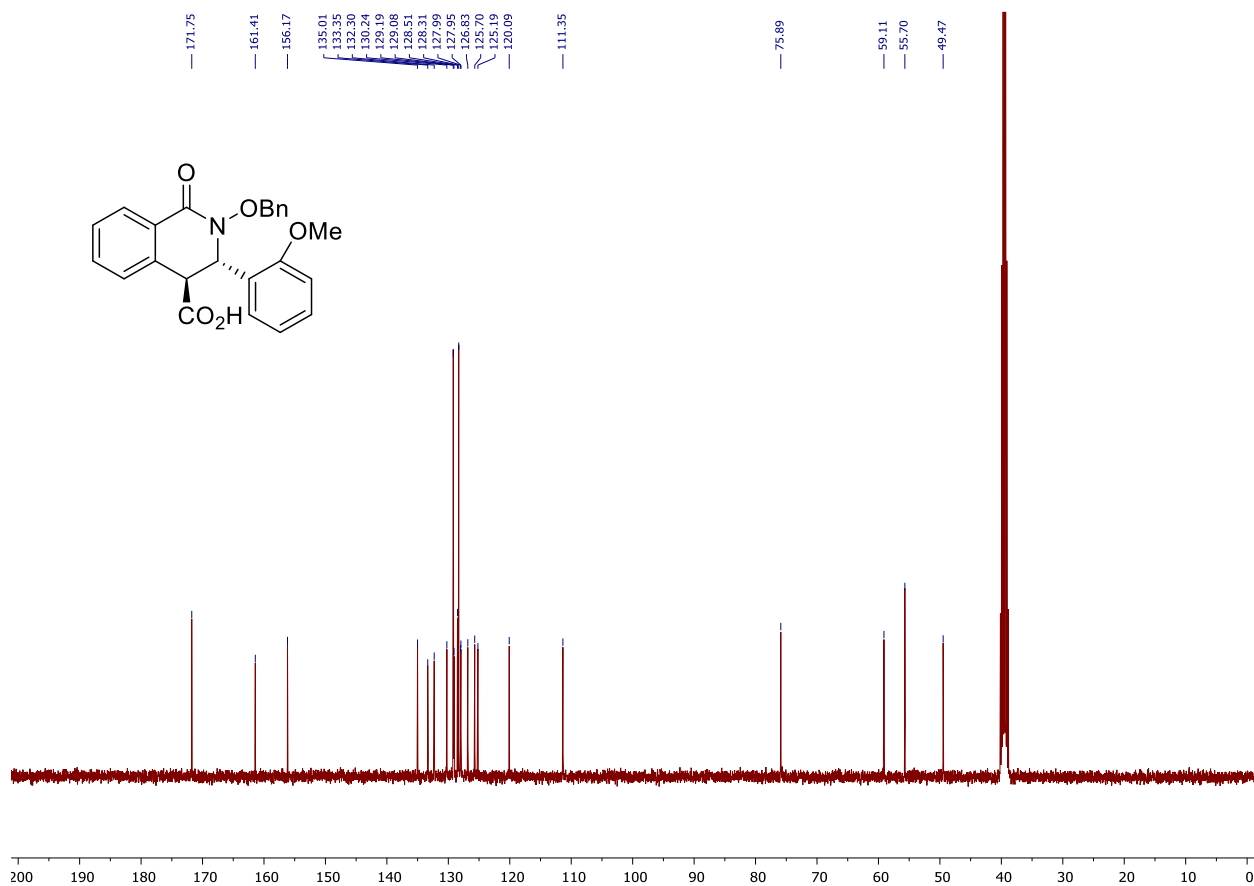
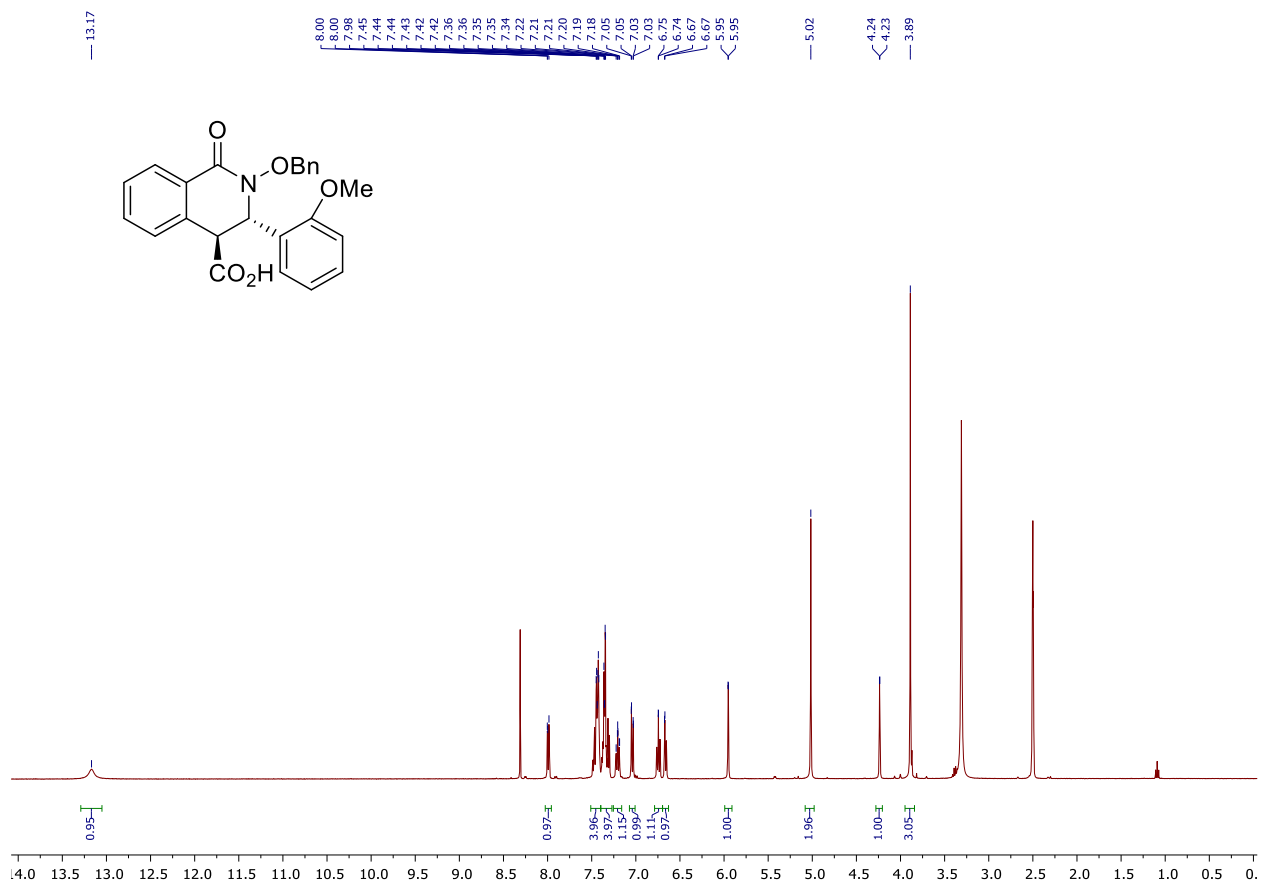
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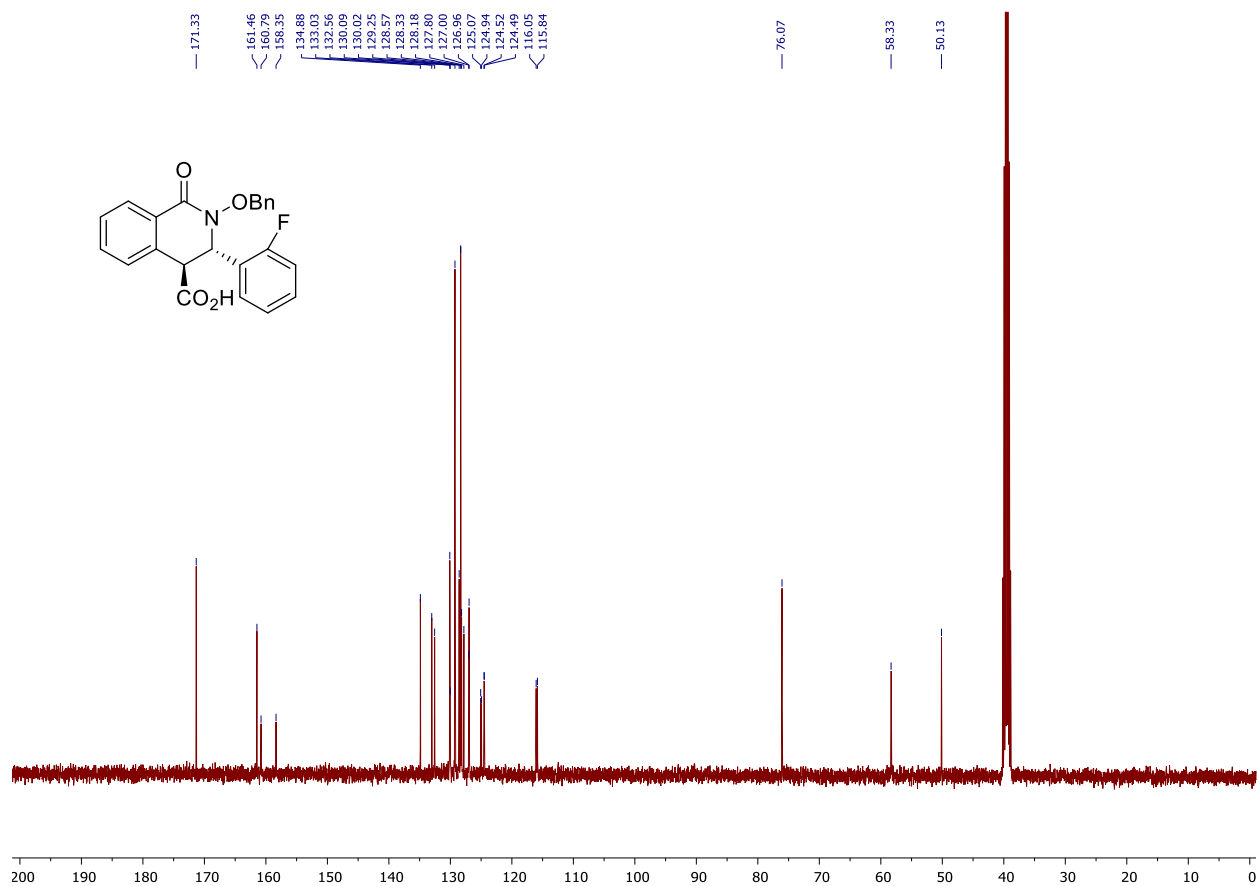
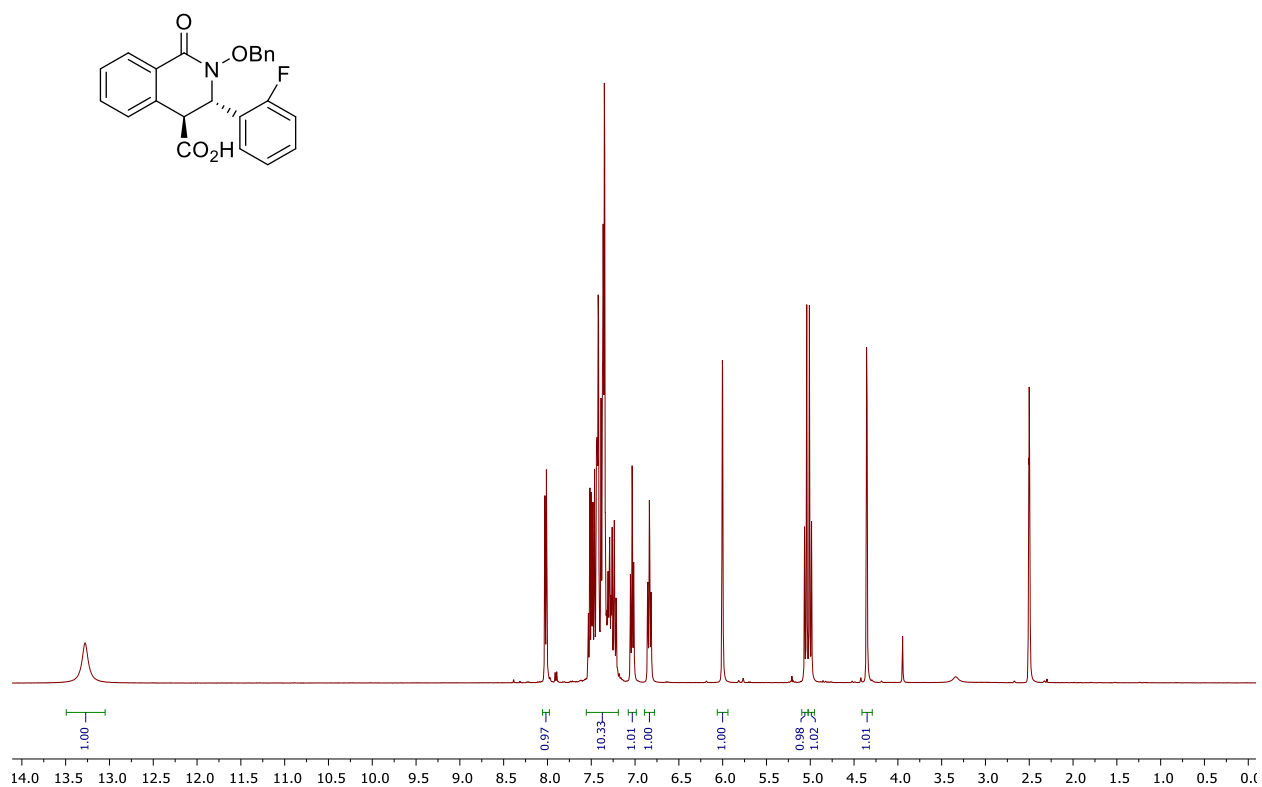
¹H and ¹³C spectra of compound 4



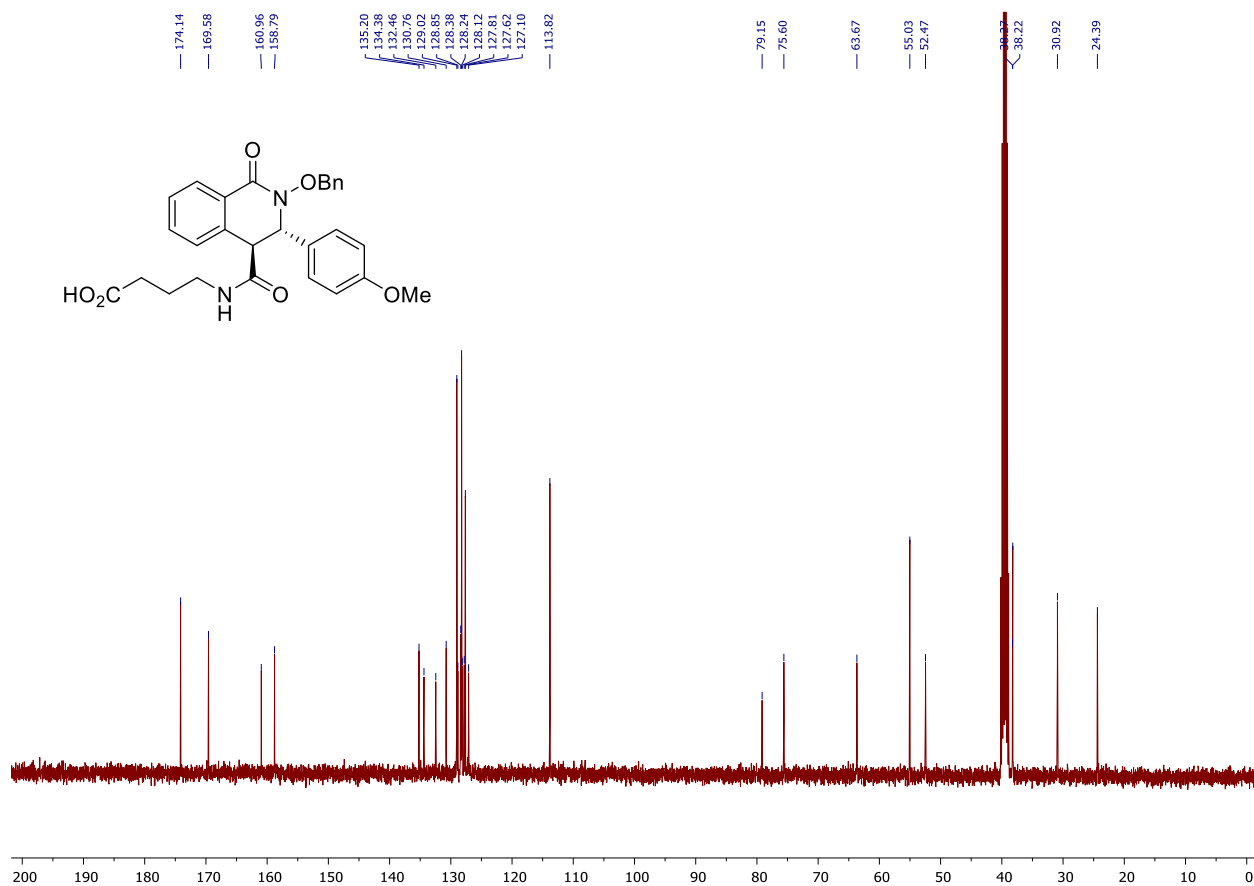
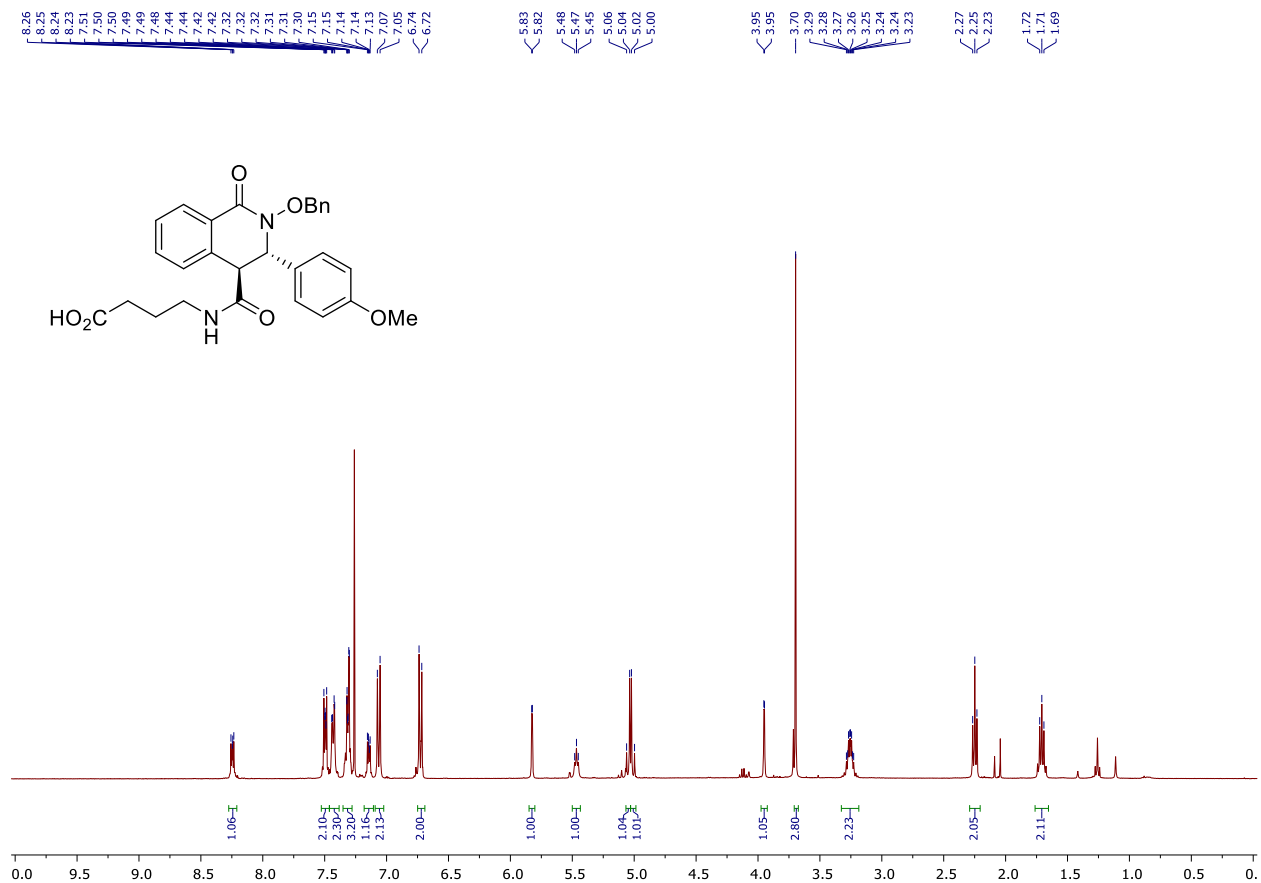
¹H and ¹³C spectra of compound 5b



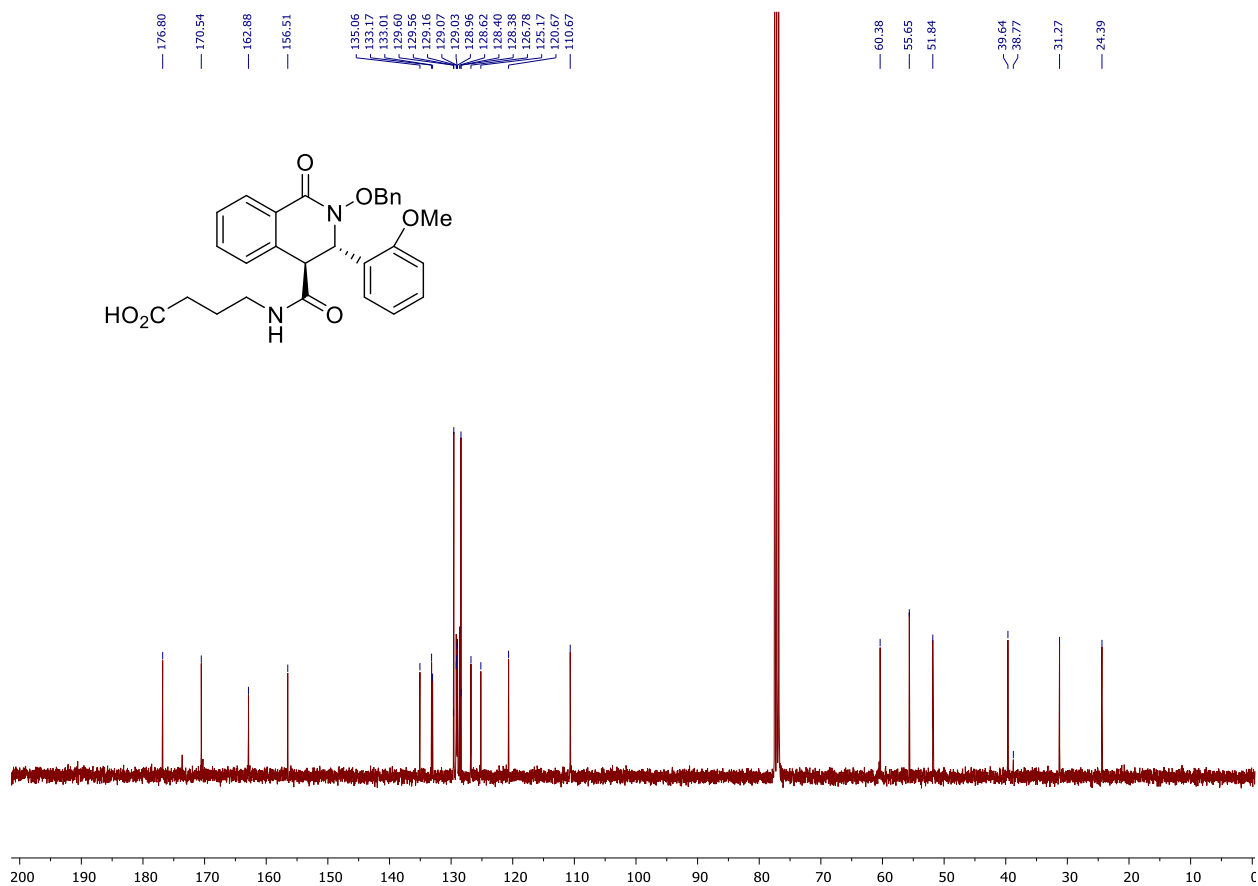
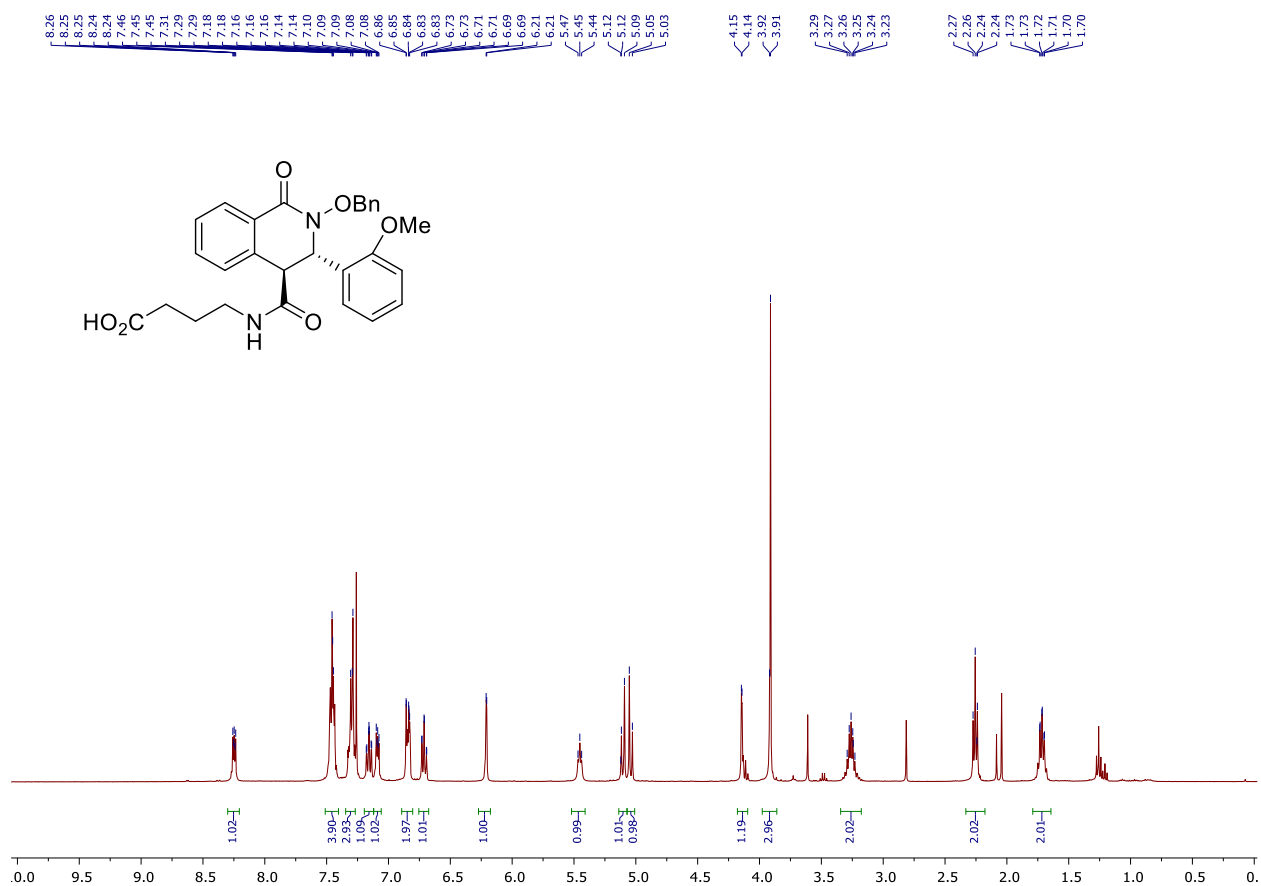
^1H and ^{13}C spectra of compound 5c



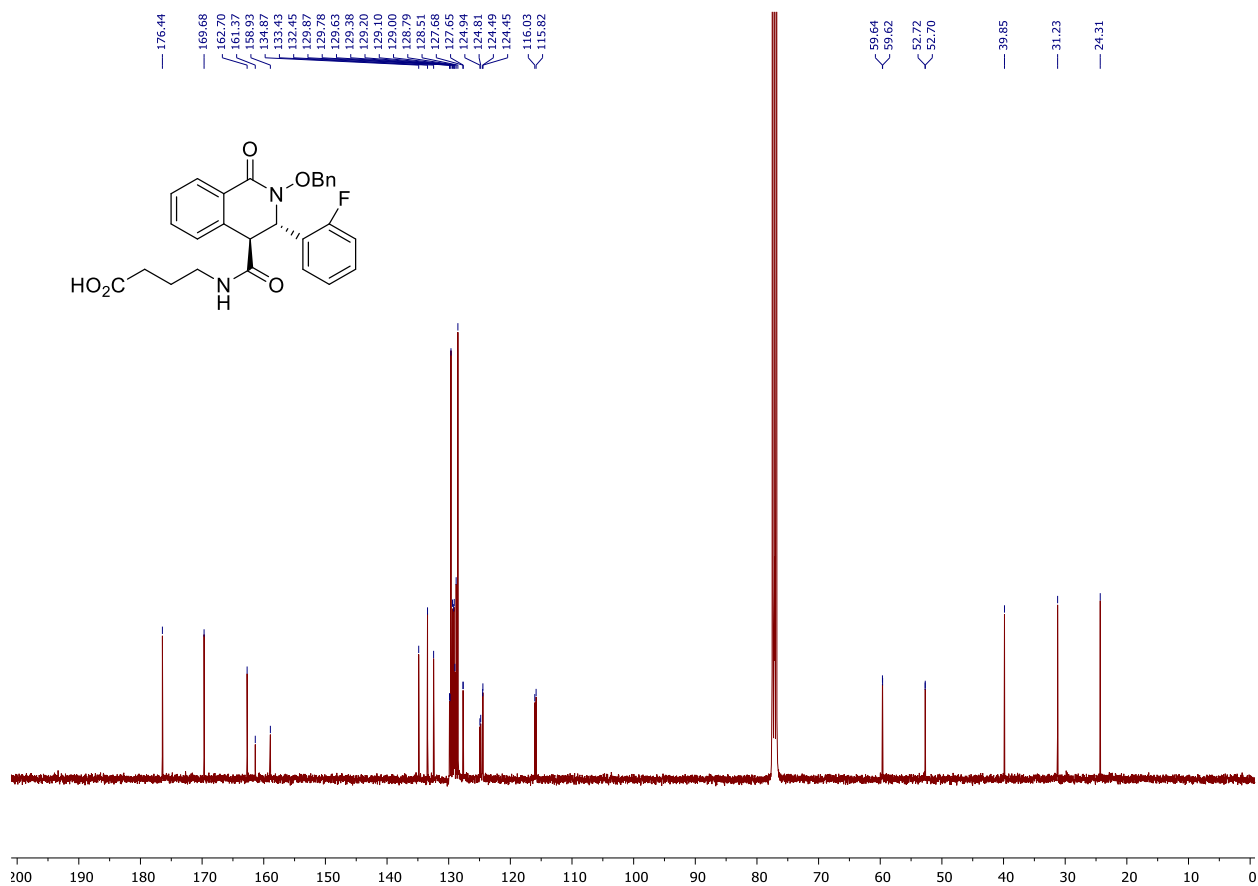
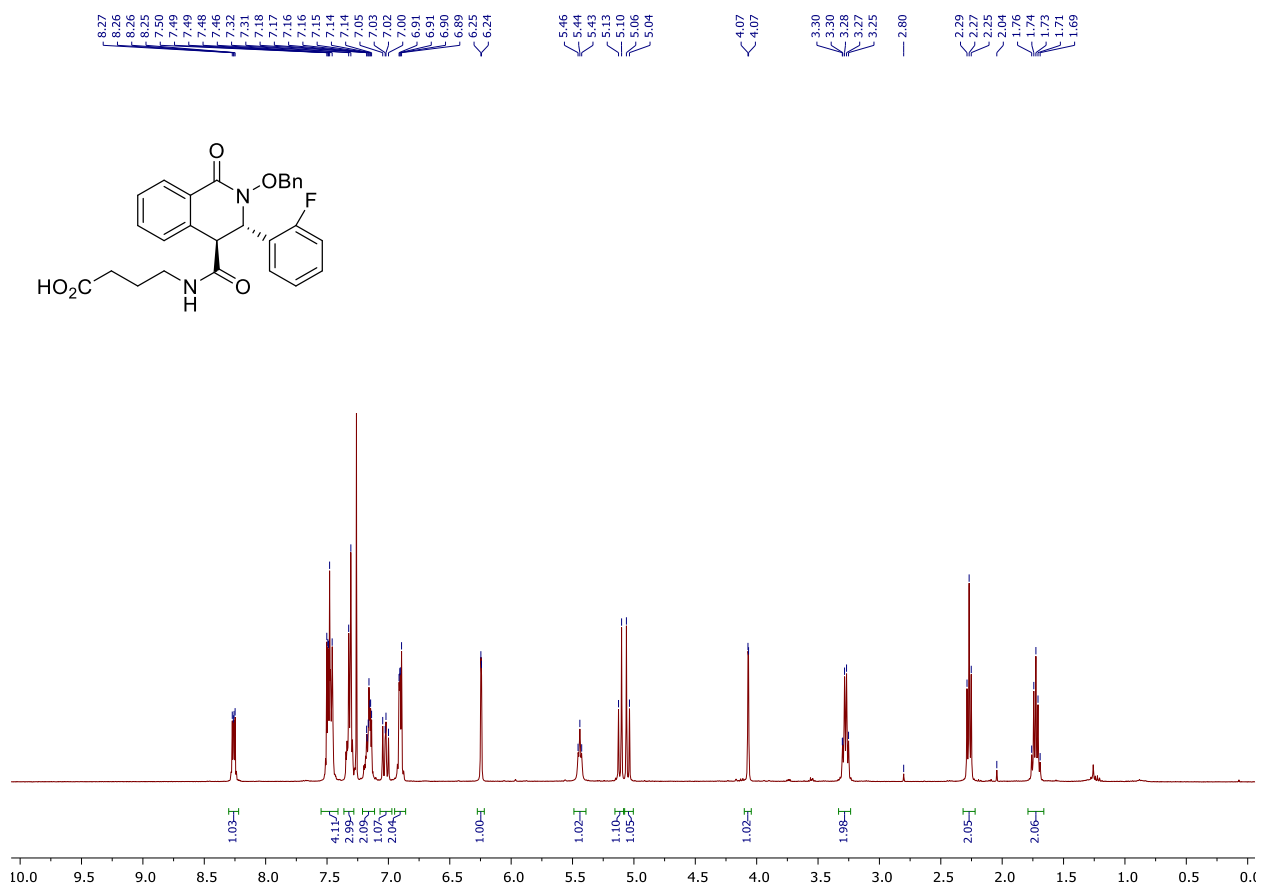
¹H and ¹³C spectra of compound 6a



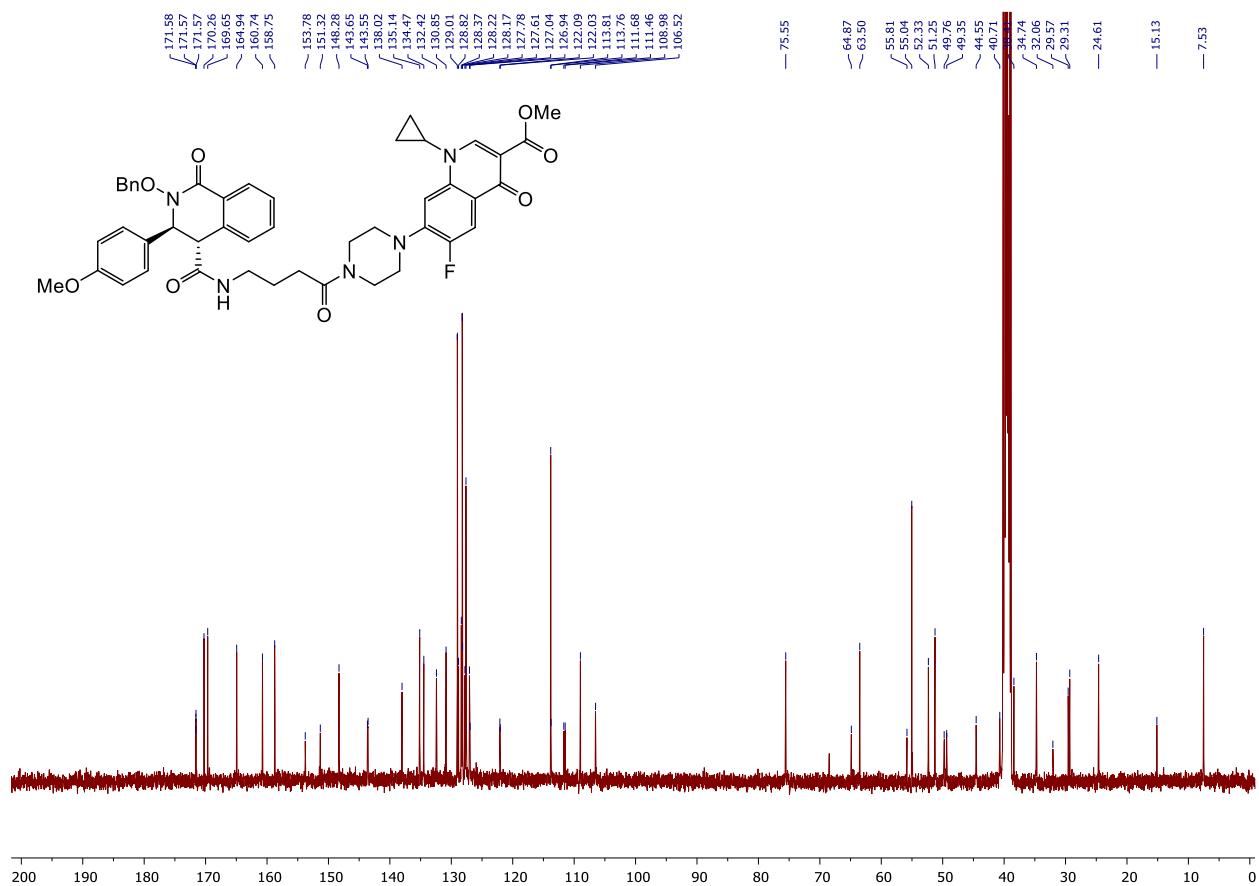
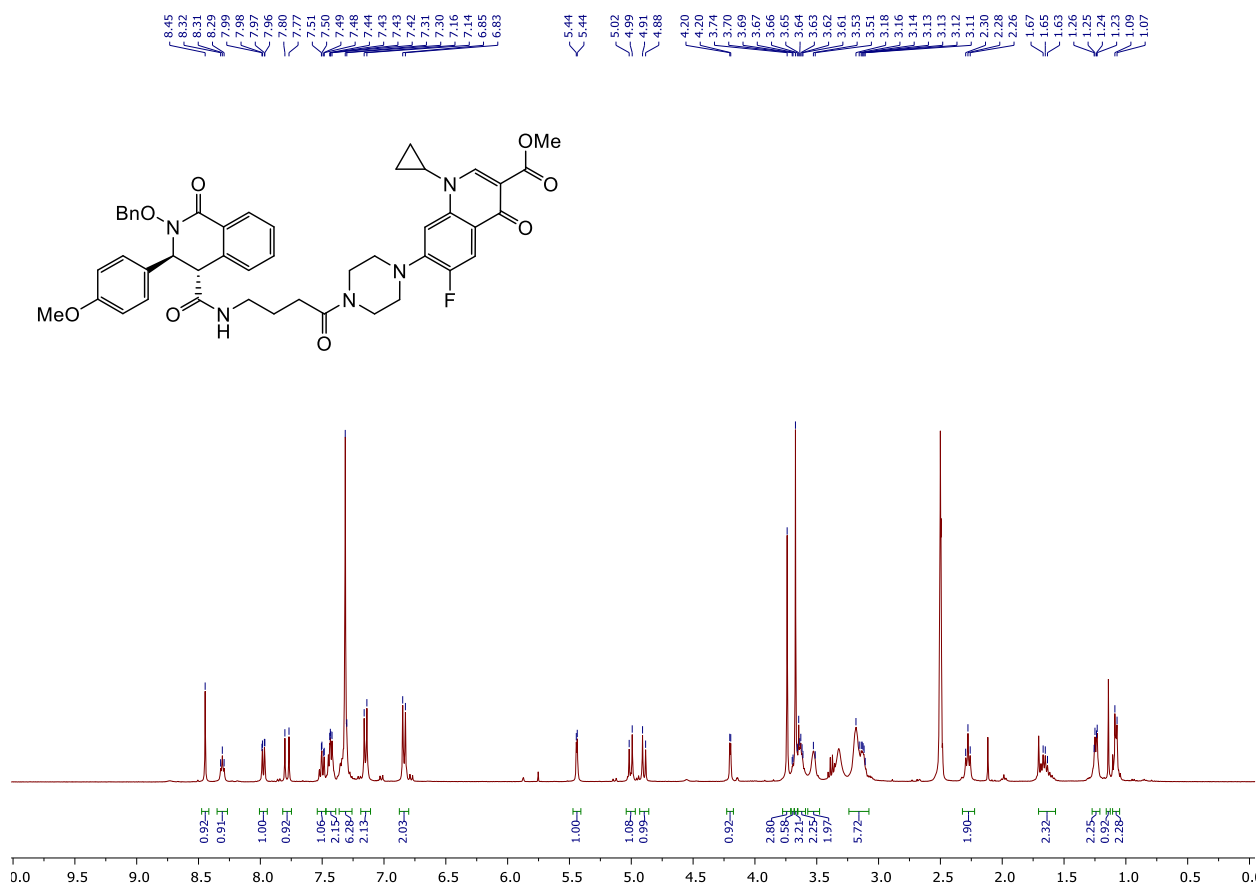
¹H and ¹³C spectra of compound 6b



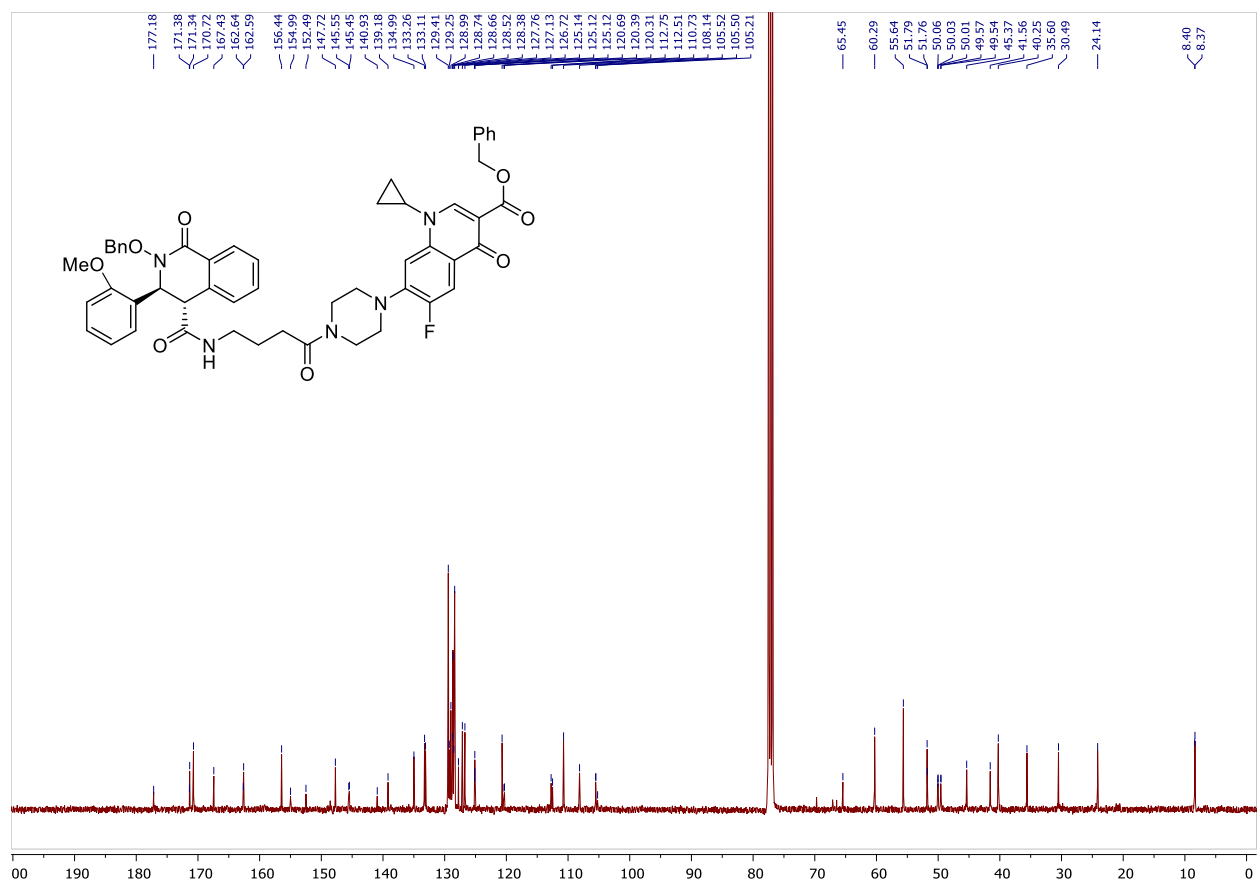
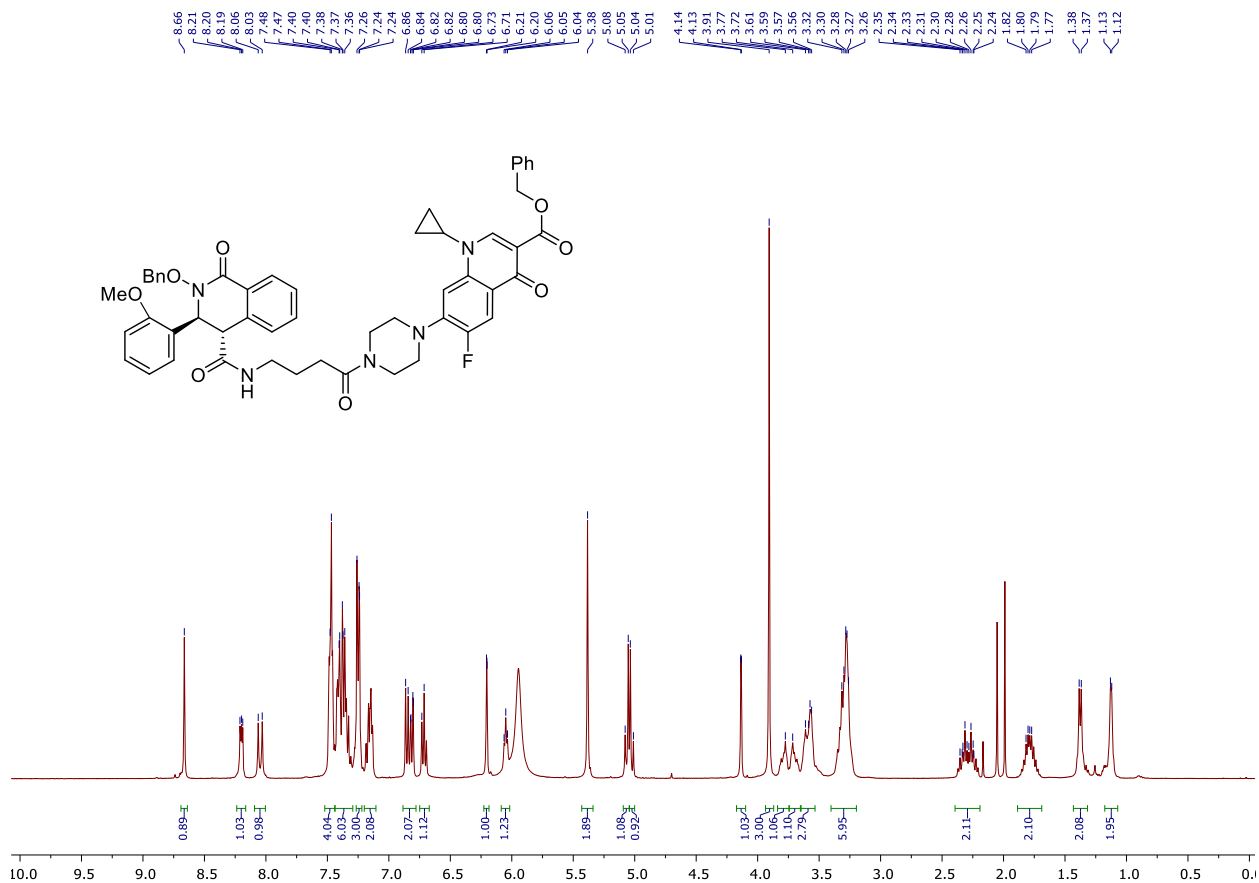
¹H and ¹³C spectra of compound 6c



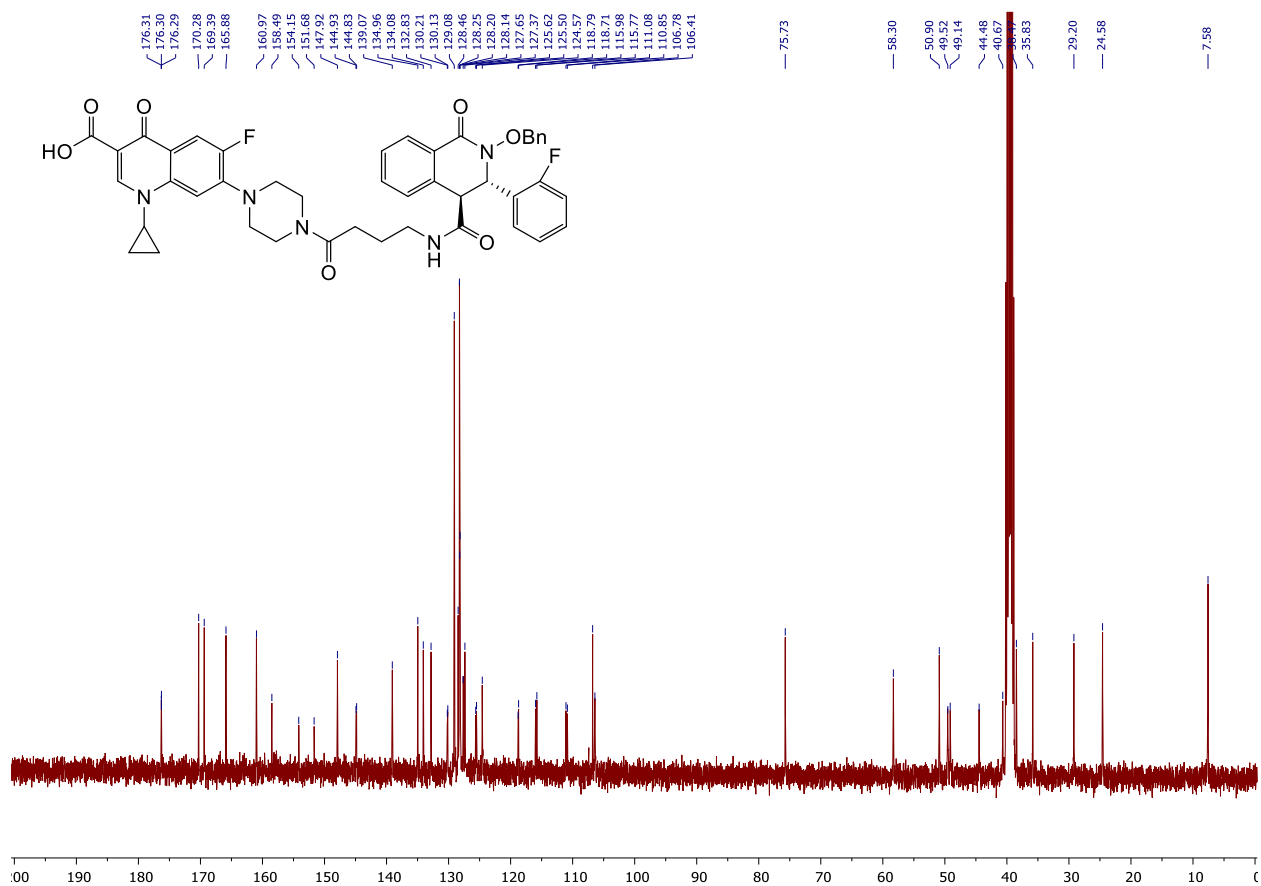
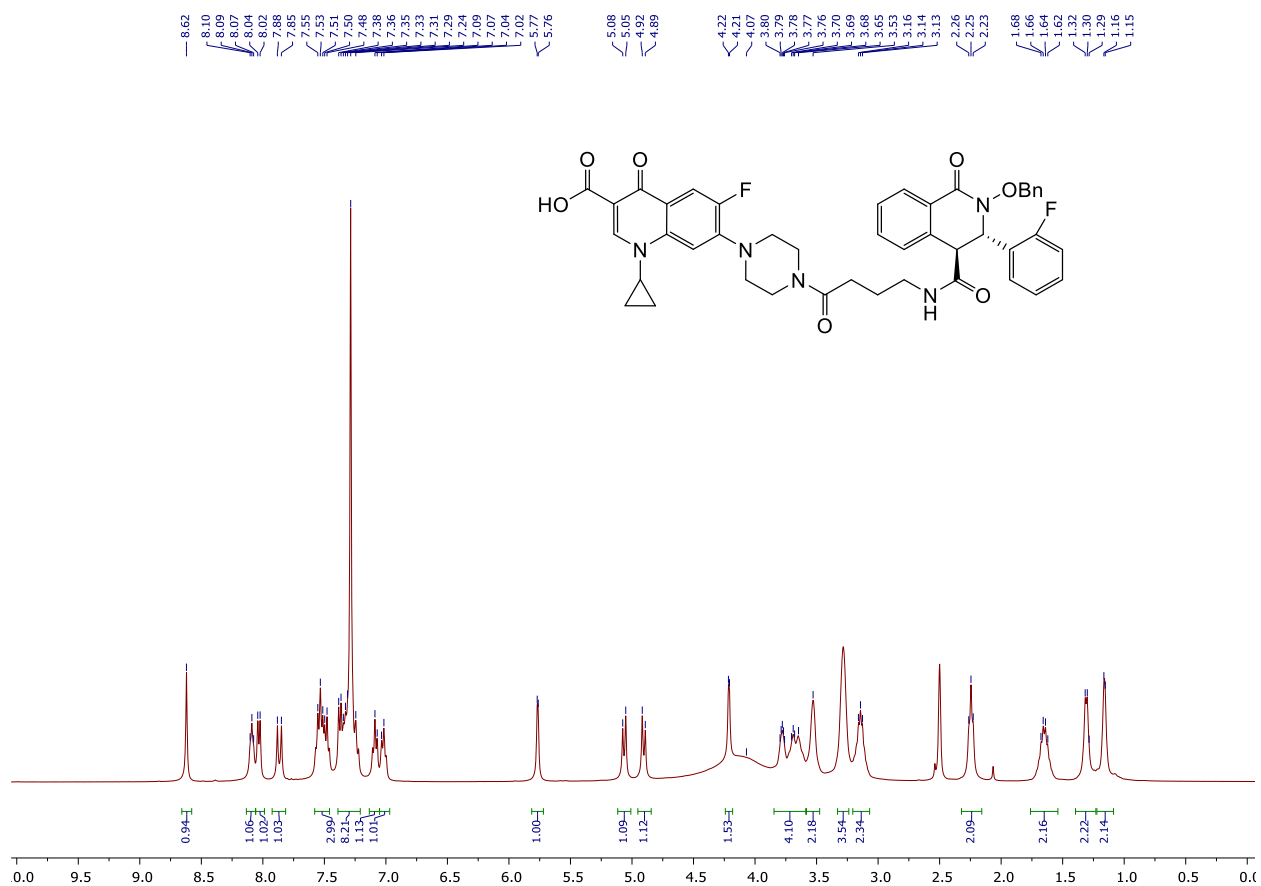
¹H and ¹³C spectra of compound 7a



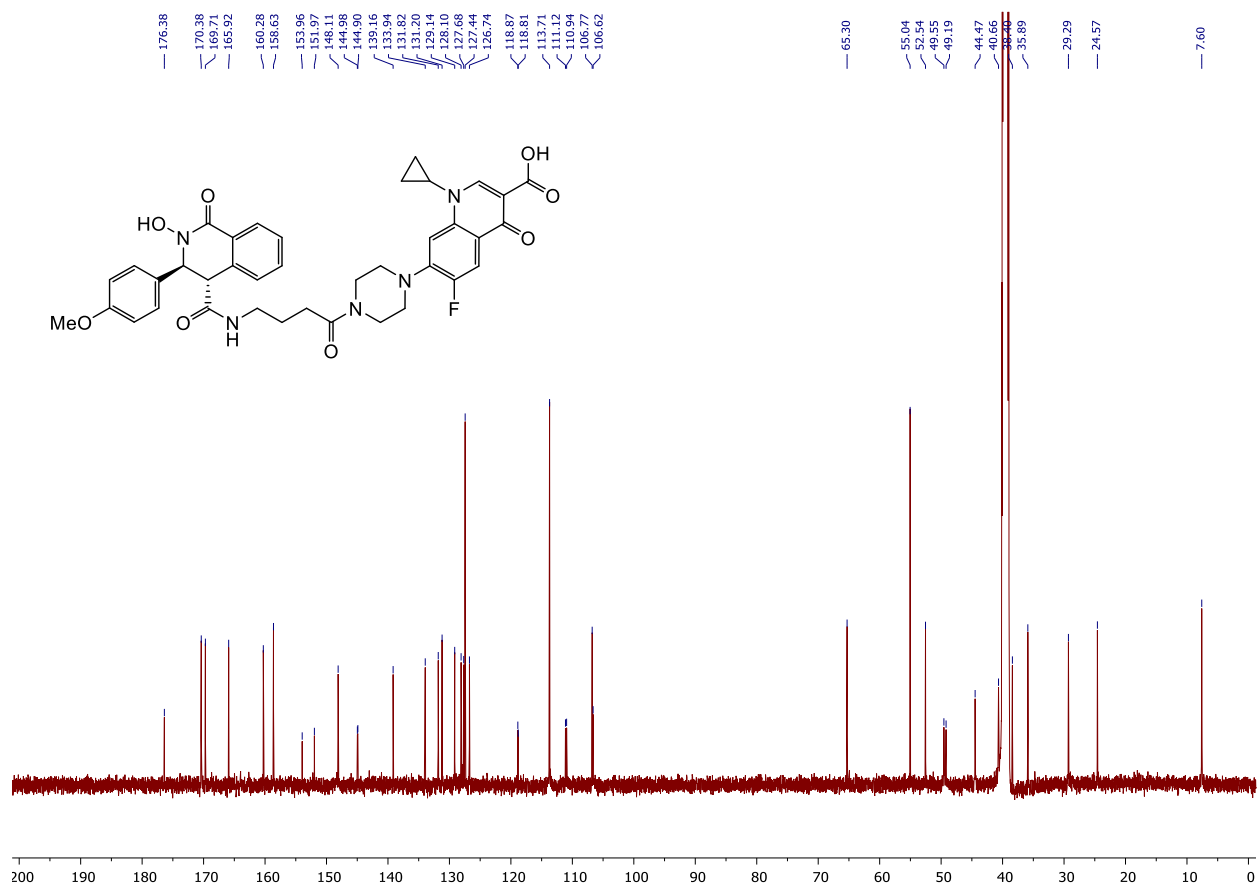
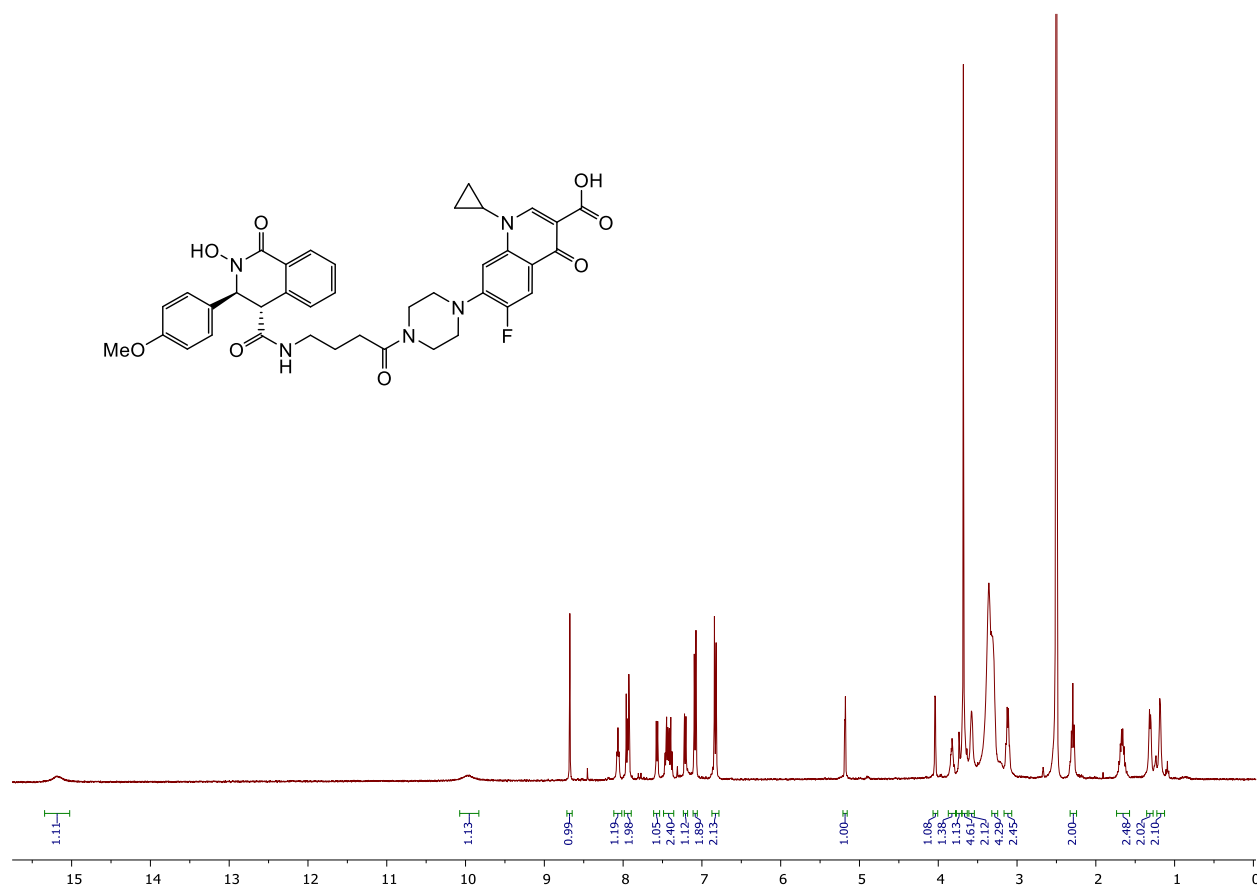
¹H and ¹³C spectra of compound 7b



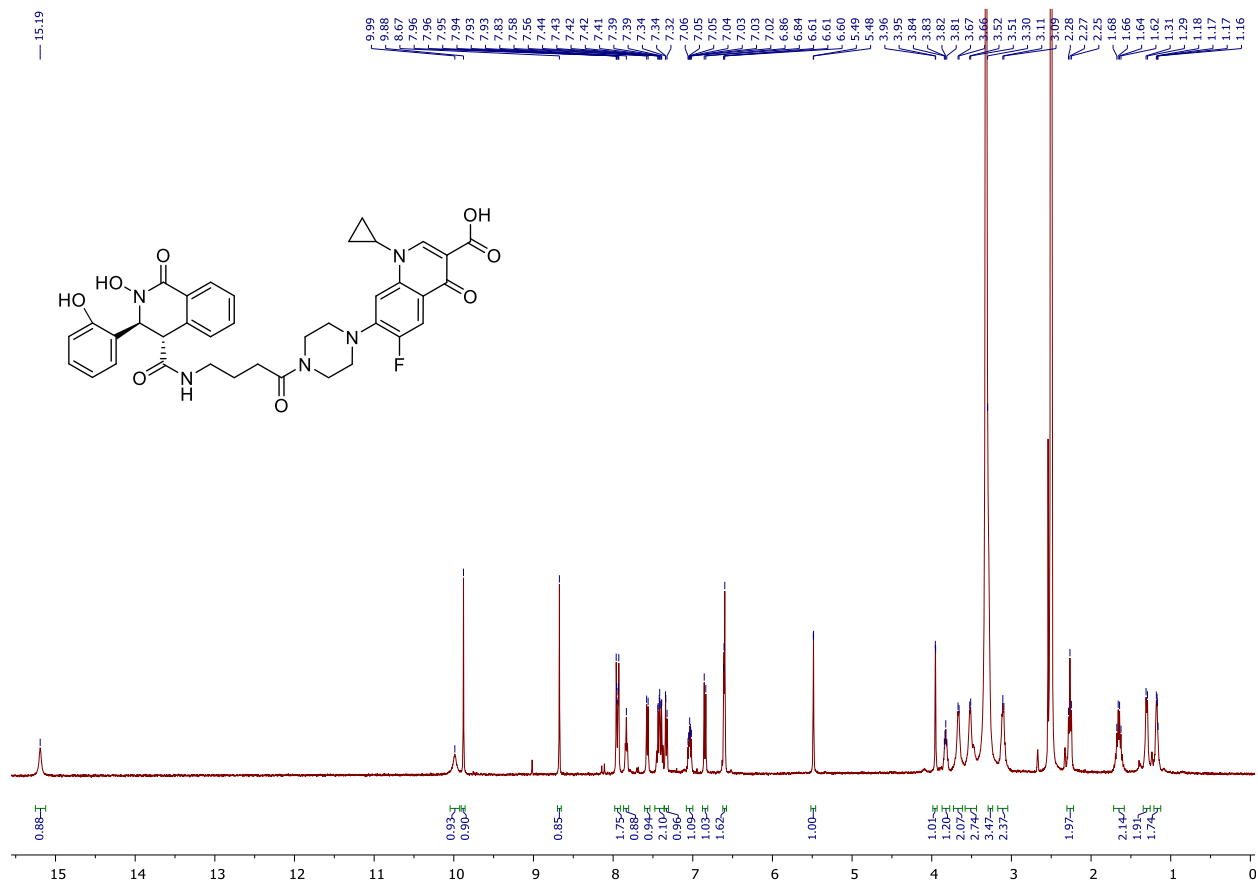
¹H and ¹³C spectra of compound 7c



¹H and ¹³C spectra of compound 8a



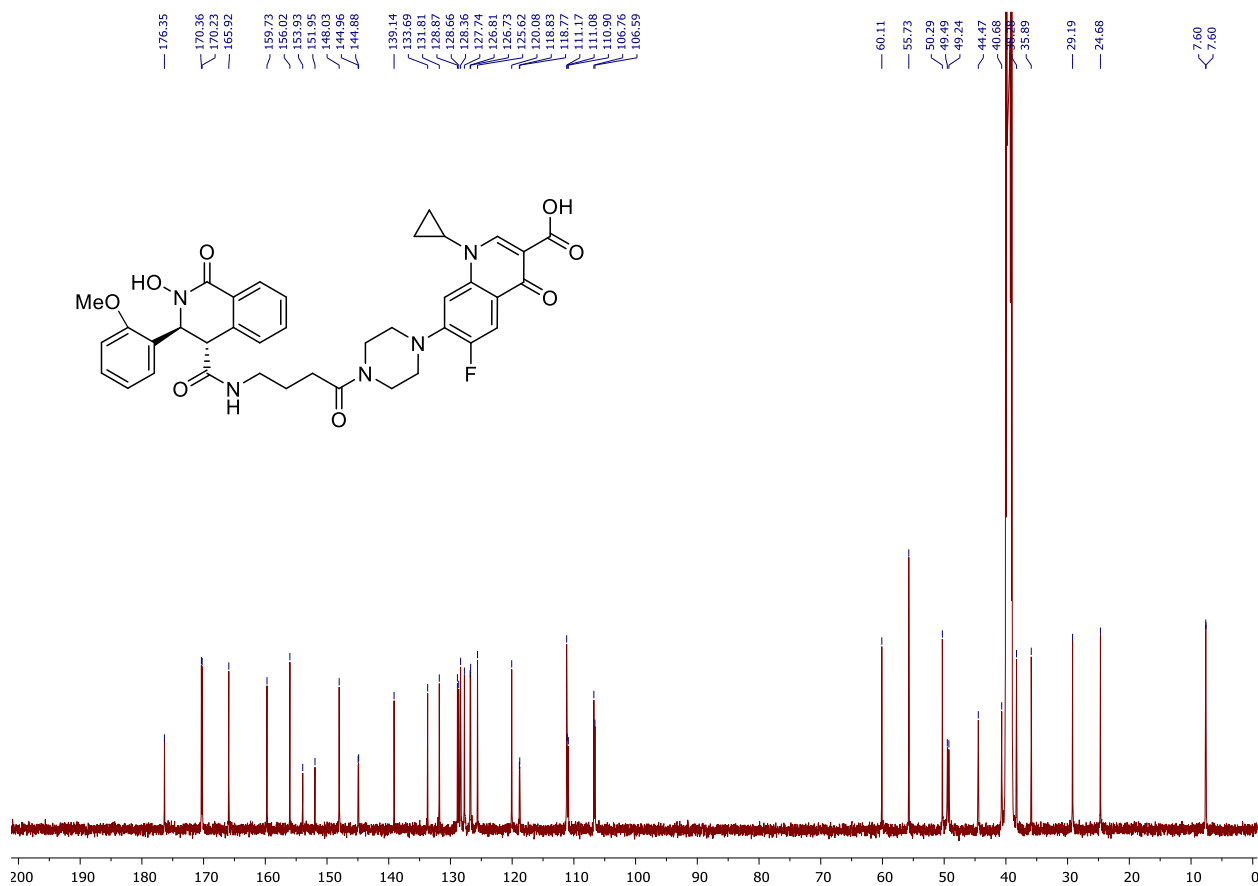
¹H and ¹³C spectra of compound 8b



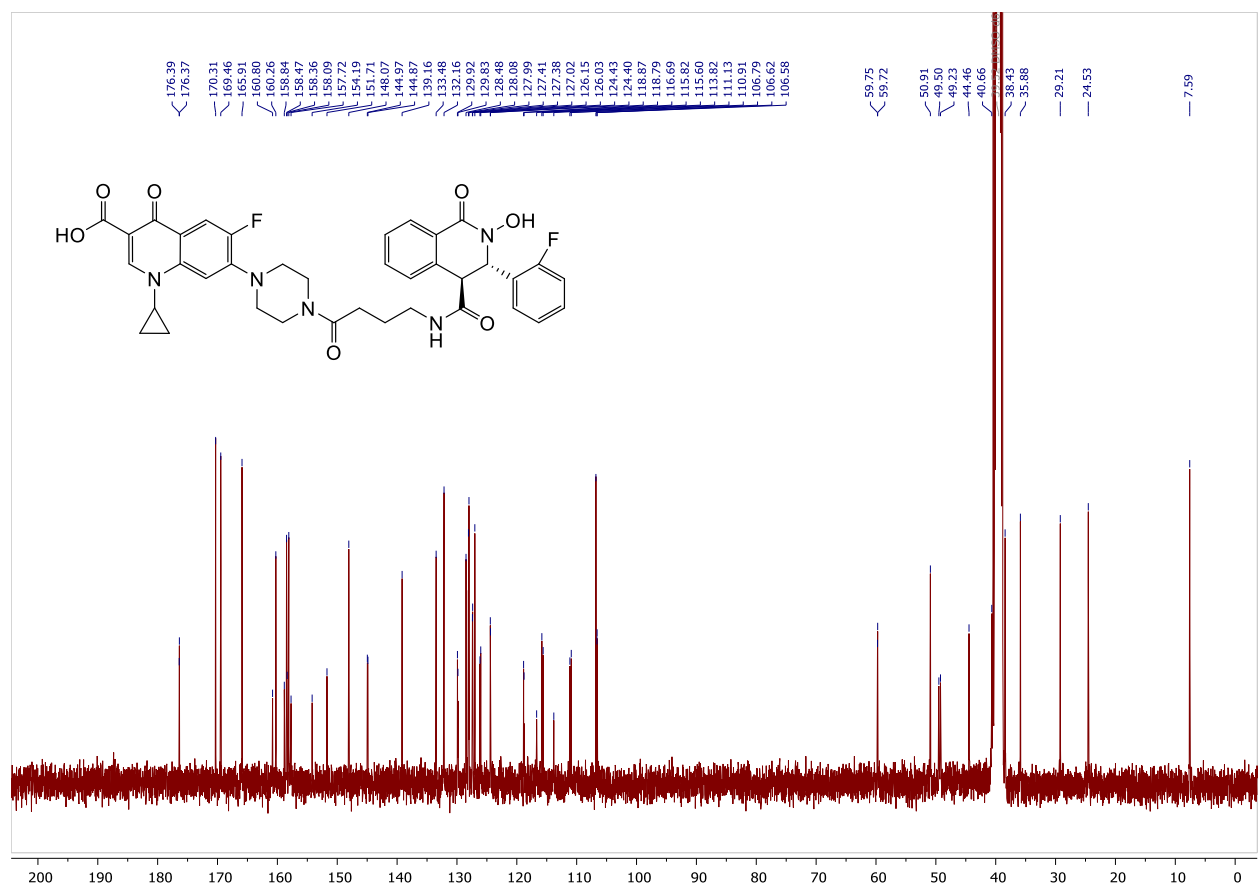
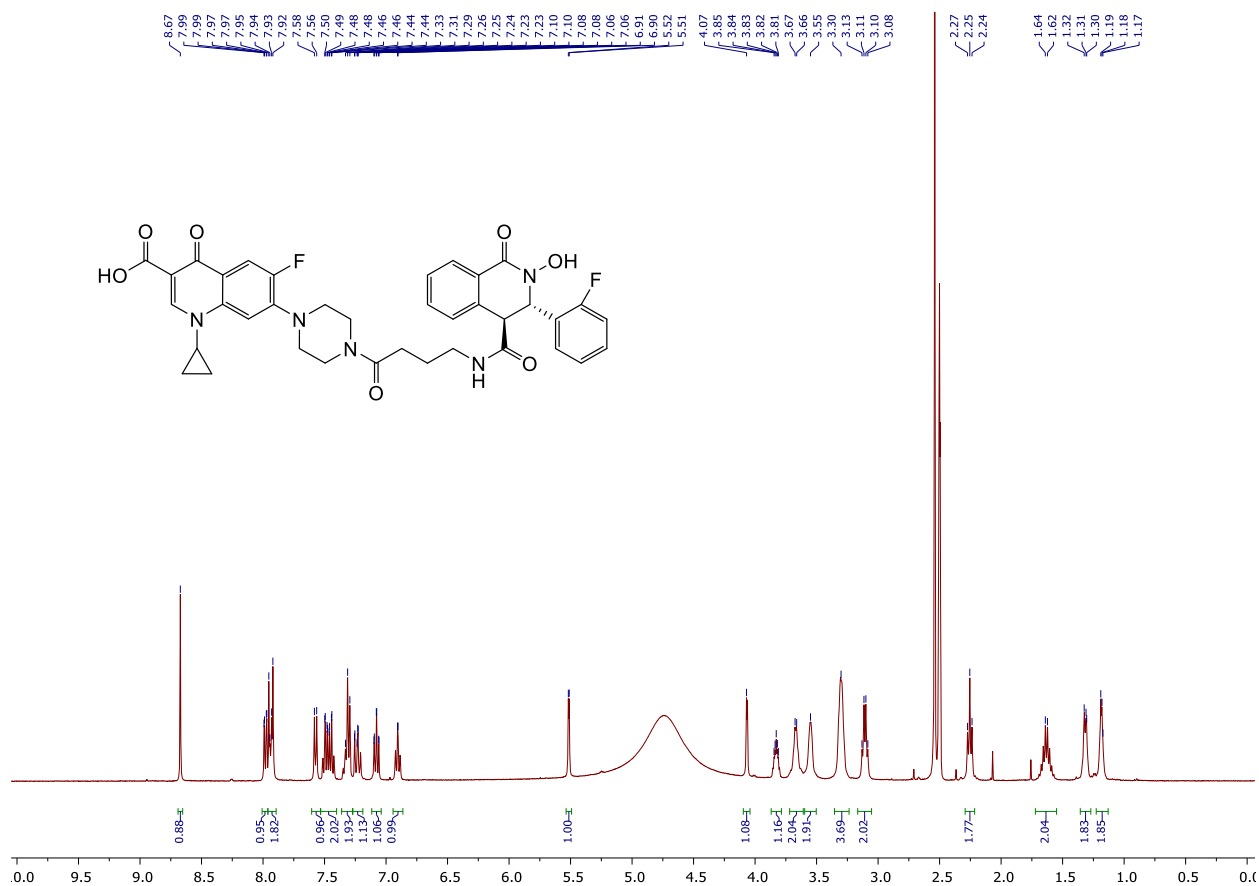
Chemical structure of compound 10 is shown above the spectrum. The structure is a complex molecule with a central piperazine ring connected to various functional groups including a carboxylic acid, a fluorine atom, a cyclopropyl group, a hydroxyl group, and a methoxy group.

¹H NMR spectrum (DMSO-d₆) of compound 10. The x-axis represents the chemical shift in ppm, ranging from 1.17 to 15.18. The spectrum shows several peaks, with integration values provided below the baseline.

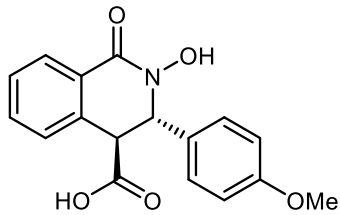
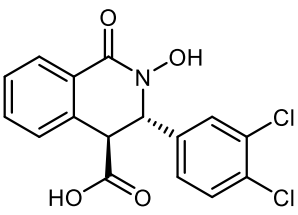
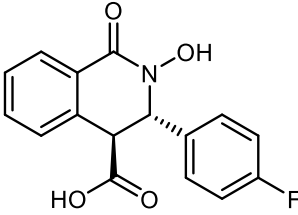
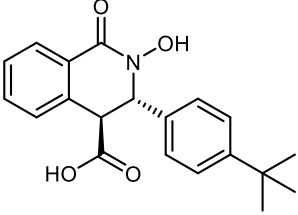
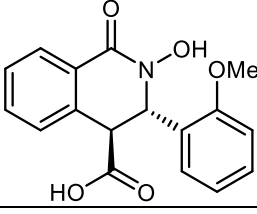
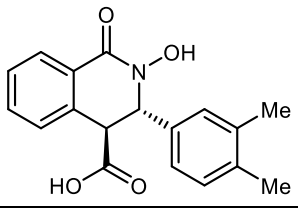
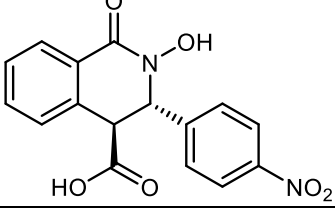
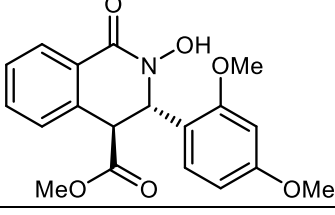
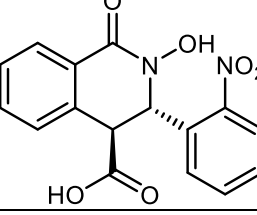
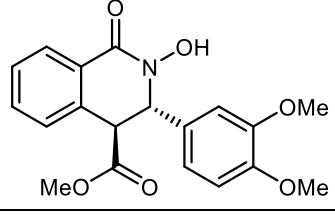
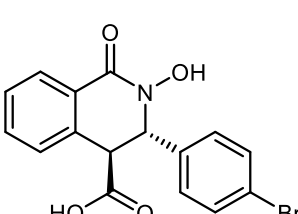
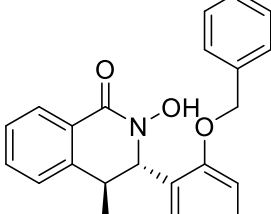
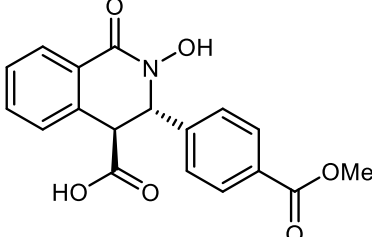
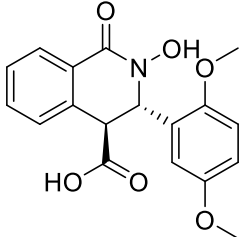
Integration values (from left to right): 0.90, 0.94, 0.98, 2.12, 1.12, 1.11, 2.33, 1.11, 1.33, 1.16, 1.64, 1.04, 1.00, 1.24, 1.30, 1.30, 2.85, 3.26, 2.42, 2.13, 2.31, 2.07, 2.00.



¹H and ¹³C spectra of compound 8d



Structures of compounds **1a-z**

Compound	Structure	Compound	Structure
1a		1n	
1b		1o	
1c		1p	
1d		1q	
1e		1r	
1f		1s	
1g		1t	

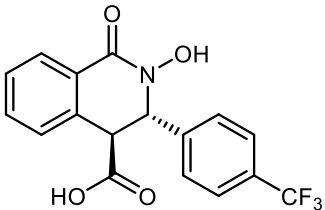
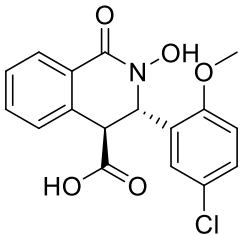
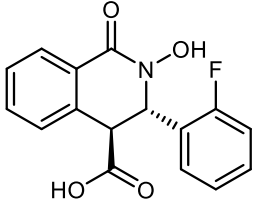
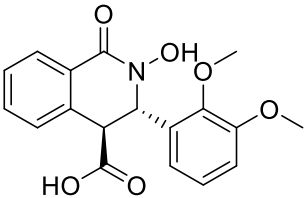
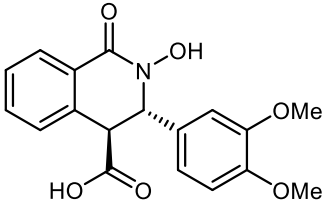
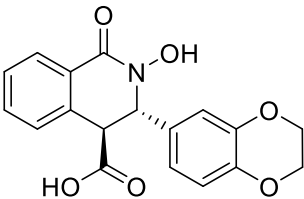
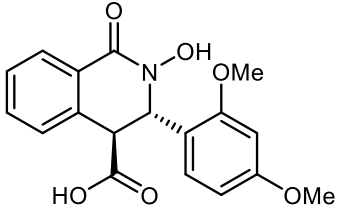
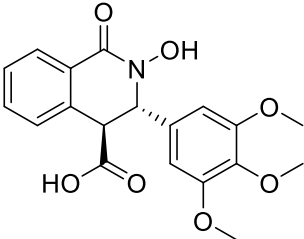
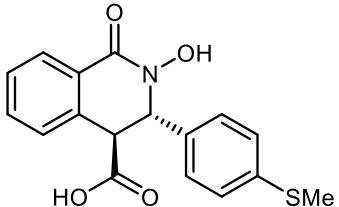
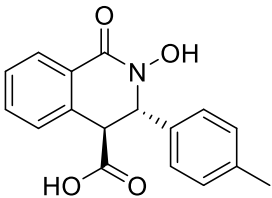
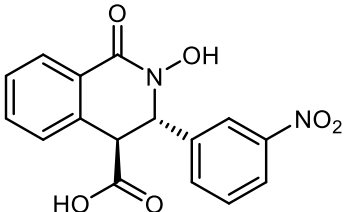
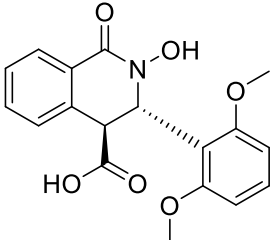
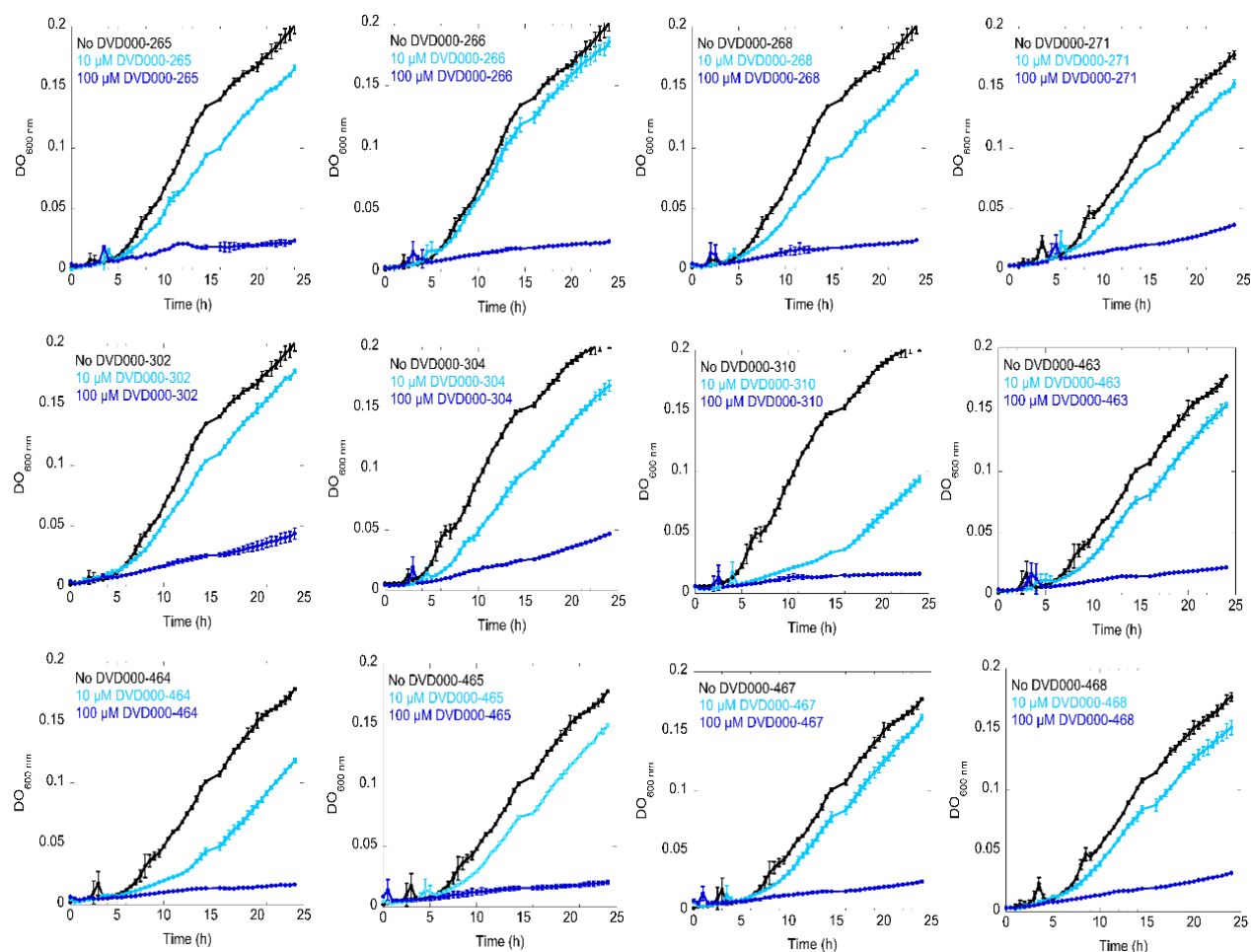
1h		1u	
1i		1v	
1j		1w	
1k		1x	
1l		1y	
1m		1z	

Figure S1. Growth of $\Delta pvdF\Delta pchA$ *P. aeruginosa* mutant in the absence or presence of 10 μM and 100 μM of the different compounds in iron-restricted medium. The growth medium used was CAA and growth was followed by monitoring optical density (OD) at 600 nm at 30 °C.



Legend: DVD000-265 (**1a**), DVD000-286 = DVD000-627 (**1c**), DVD000-268 (**1d**), DVD000-271 (**1z**), DVD000-302 (**1e**), DVD000-304 (**1i**), DVD000-310 (**1k**), DVD000-463 (**1t**), DVD000-464 (**1u**), DVD000-465 (**1v**), DVD000-467 (**1x**), DVD000-468 (**4**).