

Supplementary Materials

Article

Xylitol as a Hydrophilization Moiety for a Biocatalytically Synthesized Ibuprofen Prodrug

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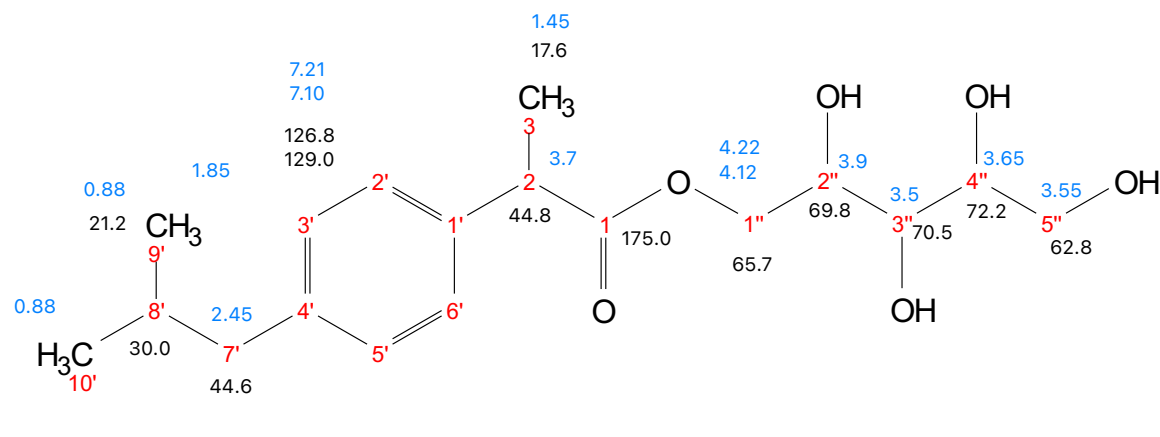


Figure S1: ¹H- and ¹³C-NMR attribution of IBU-xylitol ester.

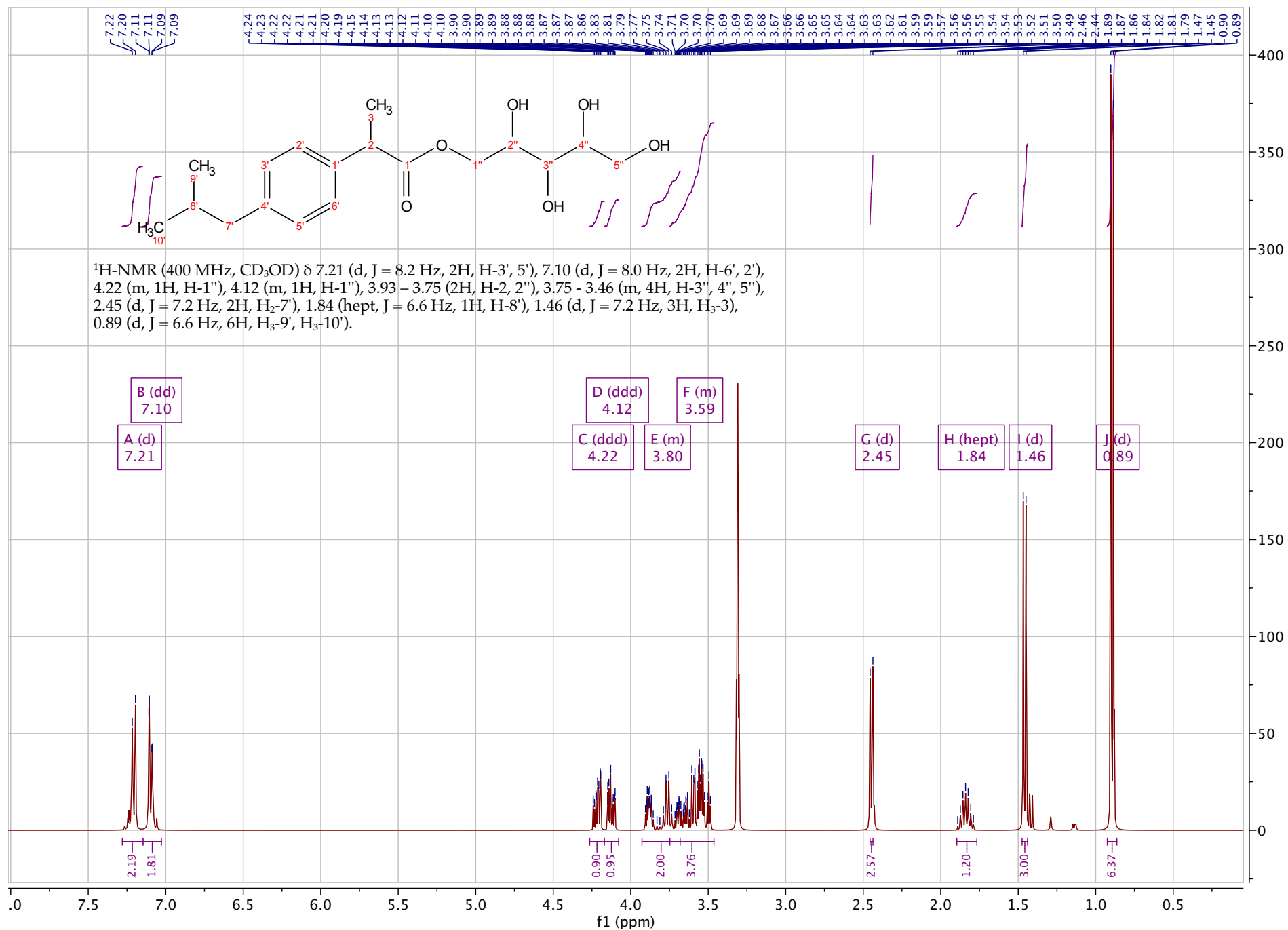


Figure S2: ¹H-NMR spectra of IBU-xylitol ester; RT, Methanol-d₄, 400 MHz.

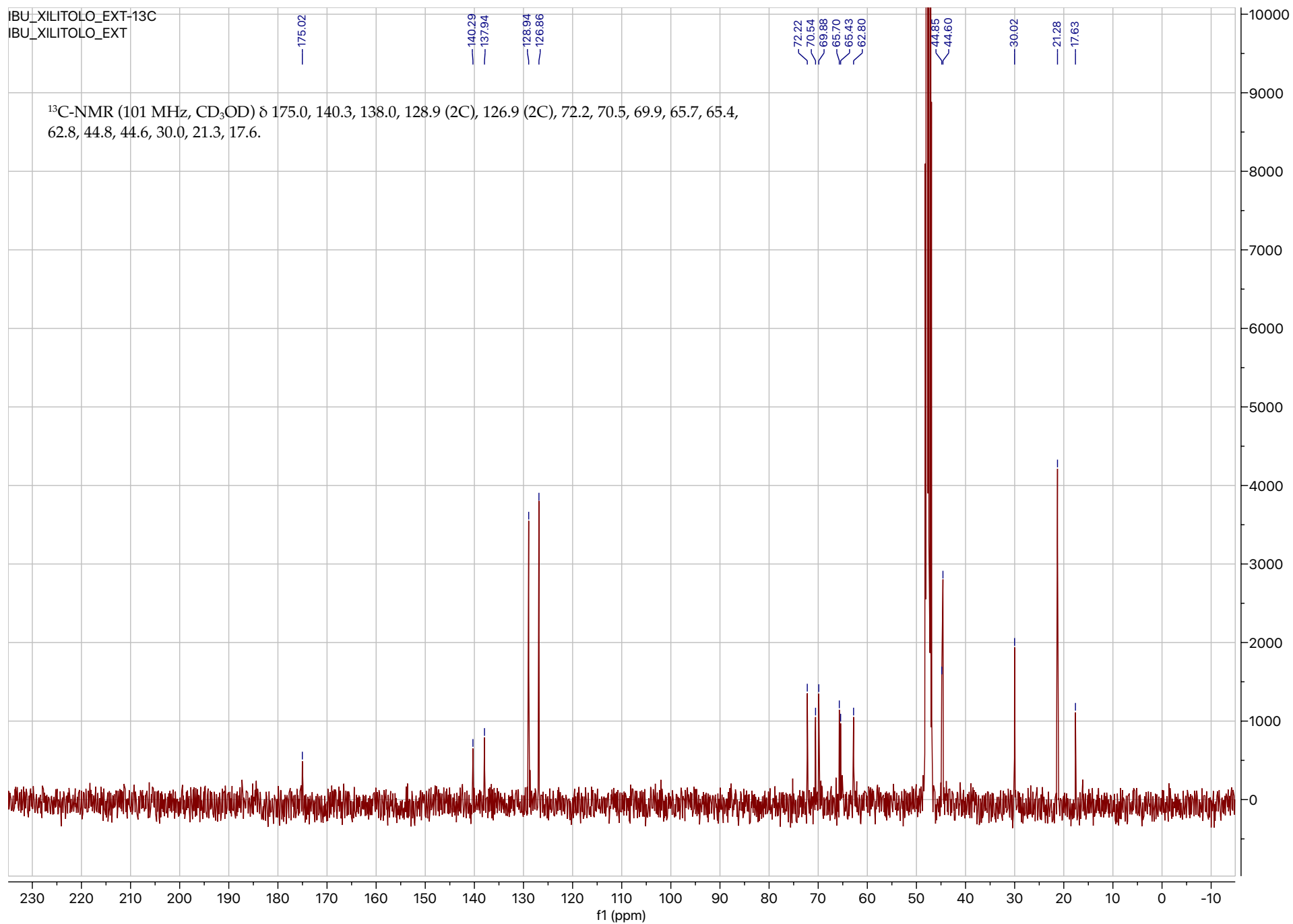


Figure S3: ^{13}C -NMR of IBU-xylitol ester; RT, Methanol- d_4 , 101 MHz.

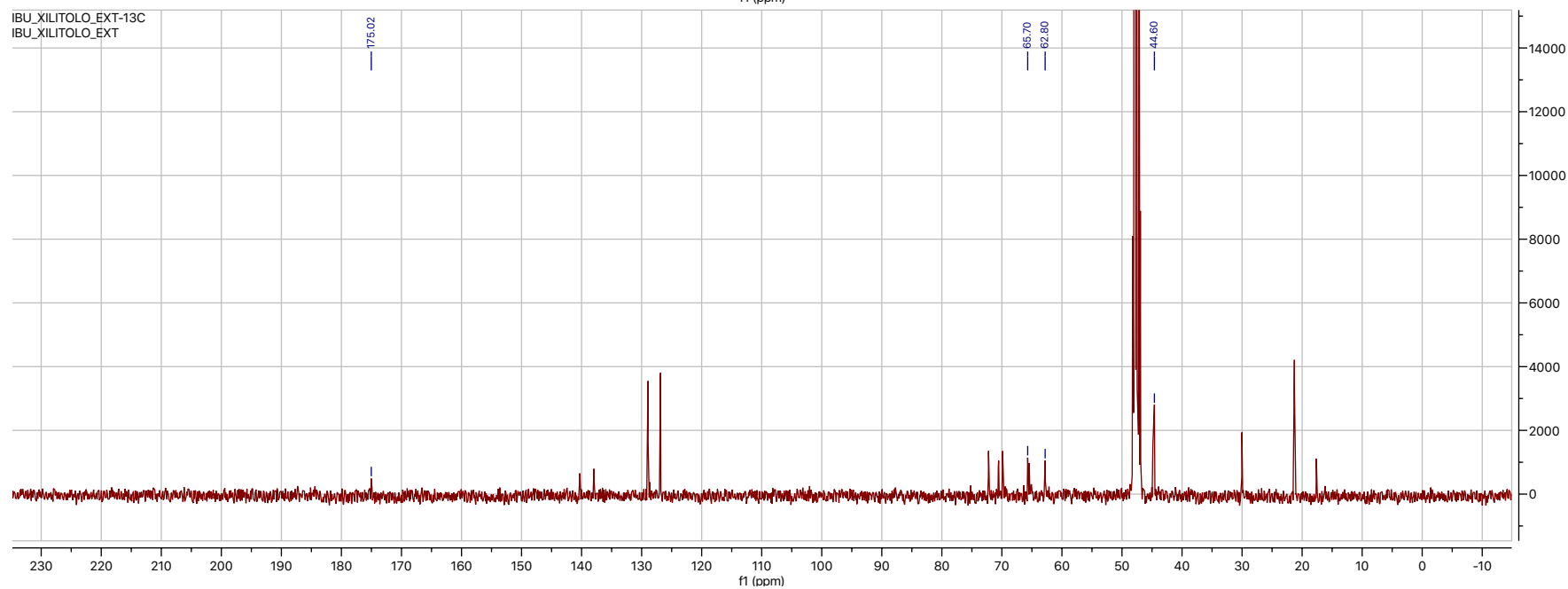
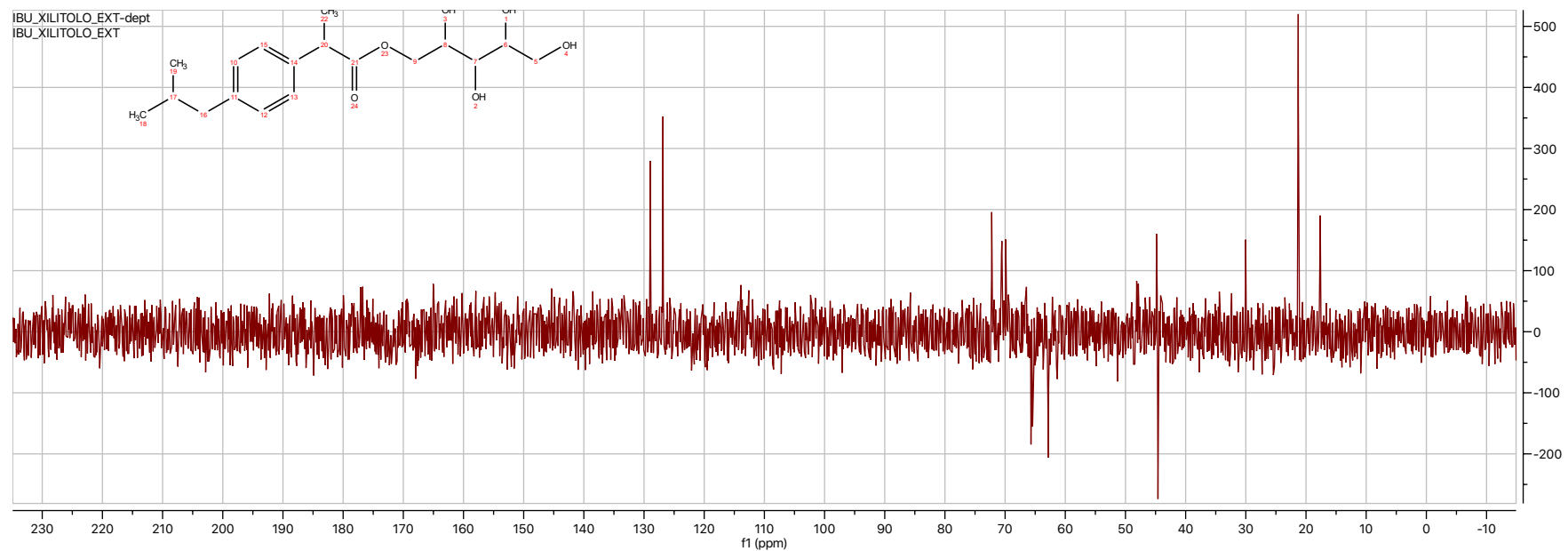


Figure S4: DEPT IBU-xylitol ester; RT, Methanol-d₄, 101 MHz.

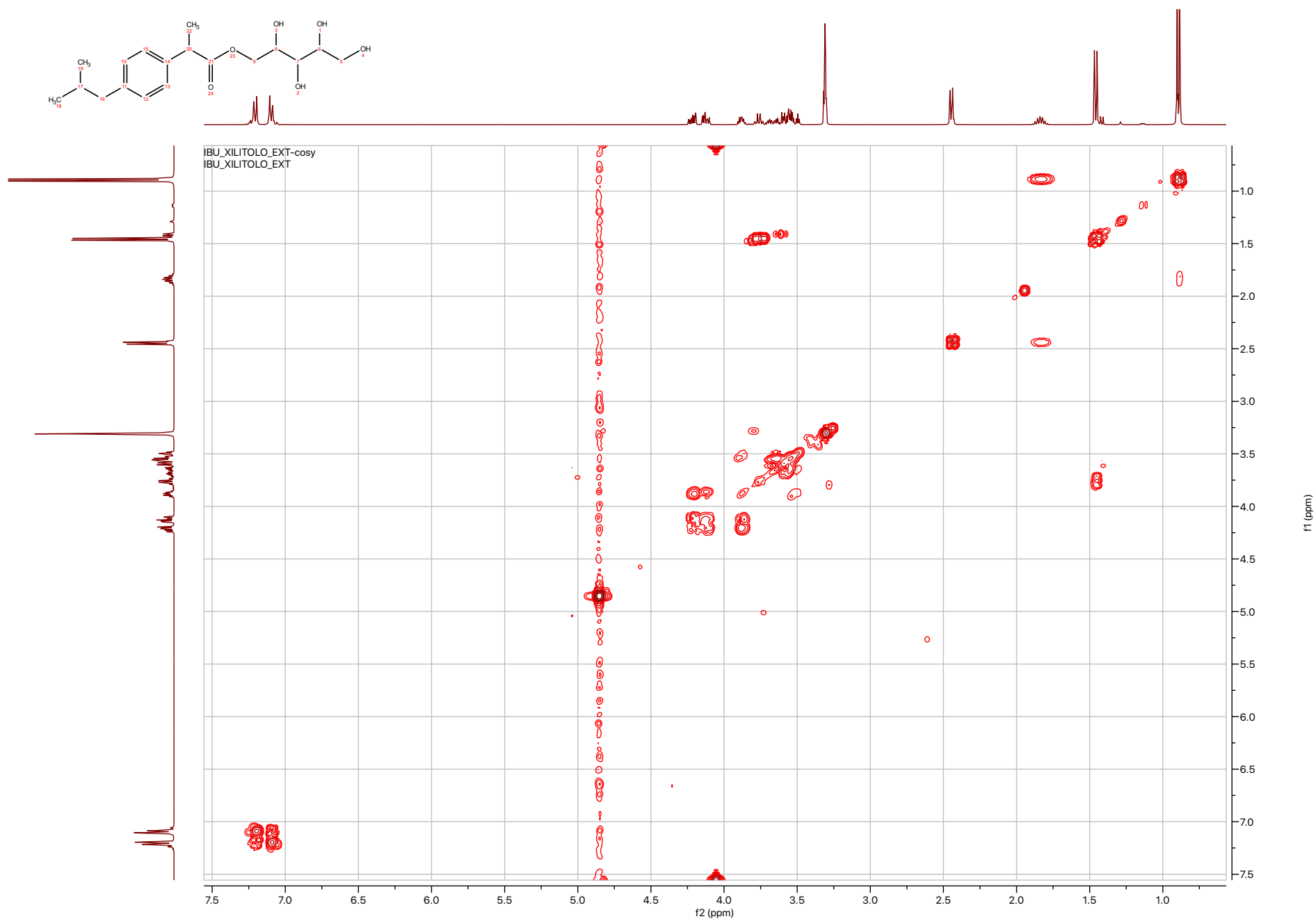


Figure S5: COSY IBU-xylitol ester; RT, Methanol-d₄, 101 MHz

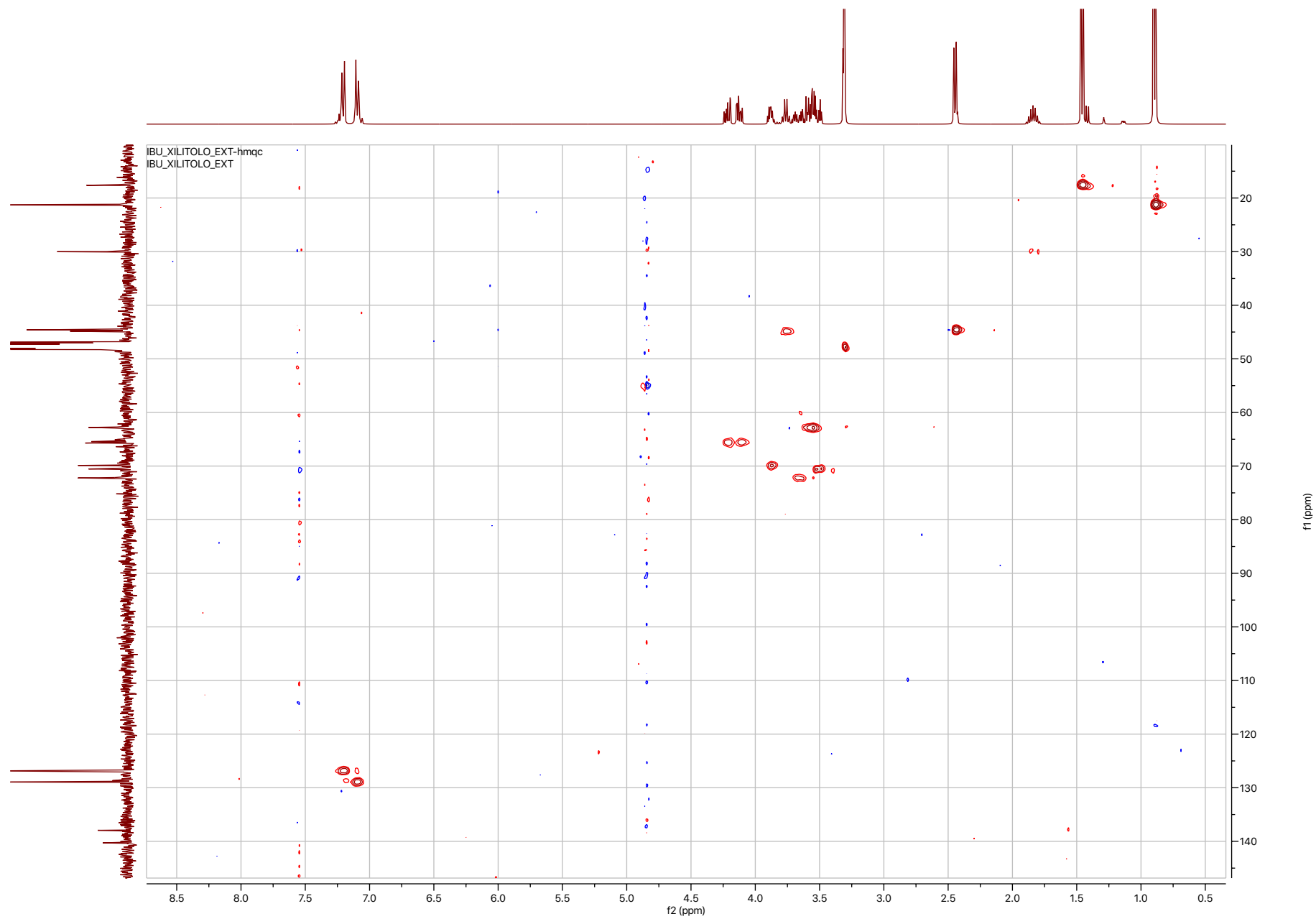
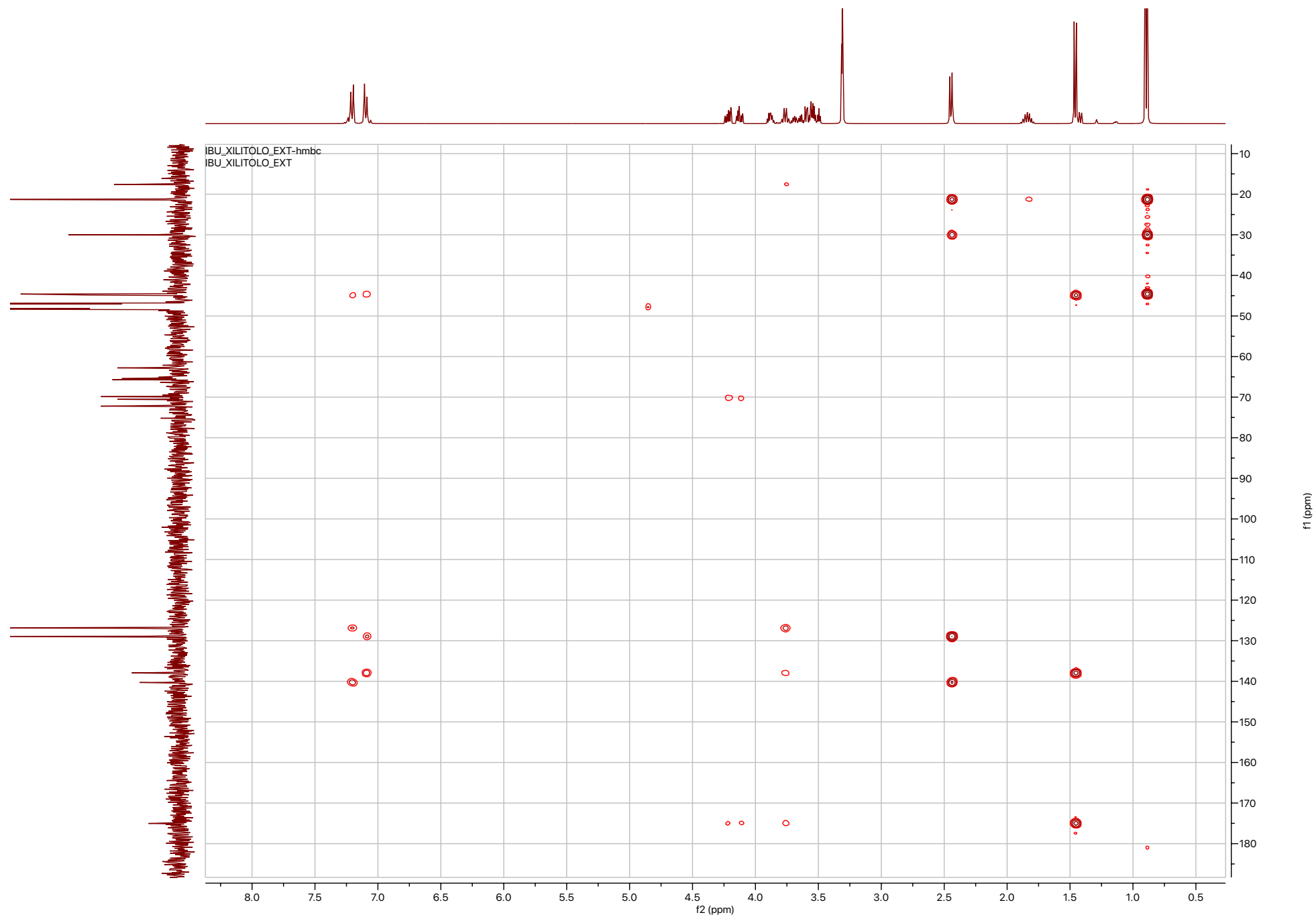


Figure S6: HMQC IBU-xylitol ester



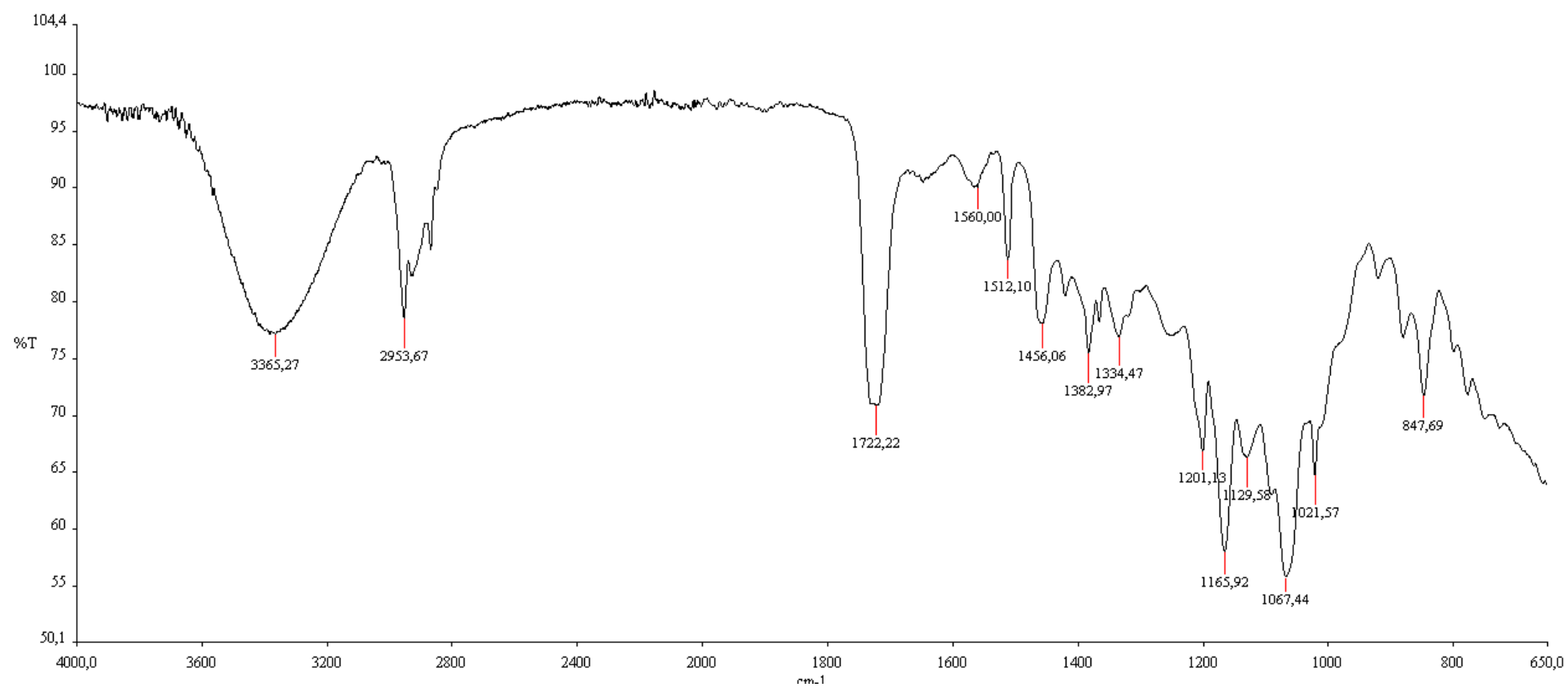


Figure S8: IR spectra of IBU-xylitol ester

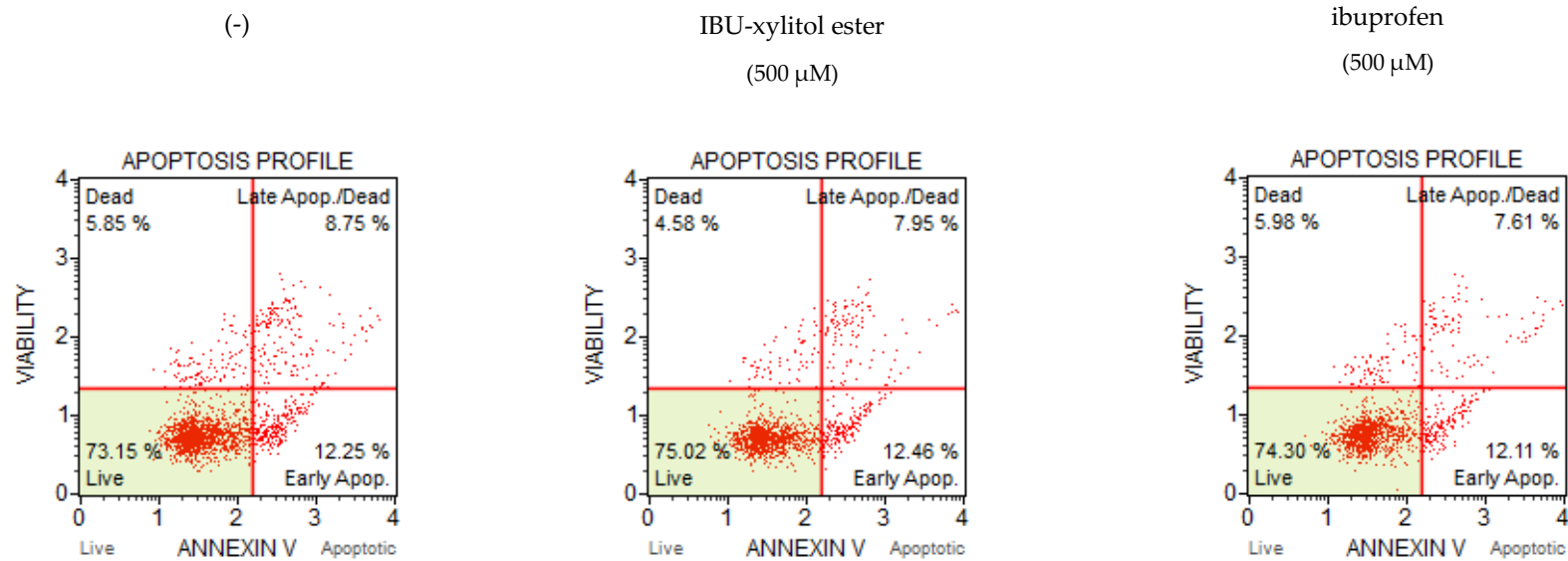


Figure S9: Representative analysis of apoptosis of IB3-1 cells cultured for 24h in the presence of the indicated concentrations of IBU-xylitol ester and ibuprofen. Apoptosis was assessed by the Annexin V assay.