

## **Supplementary Materials**

The Effect of Novel Oleanolic Acid Oximes Conjugated with Indomethacin on the Nrf2-ARE And NF-κB Signaling Pathways in Normal Hepatocytes and Human Hepatocellular Cancer Cells

Maria Narożna<sup>1</sup>, Violetta Krajka-Kuźniak<sup>1</sup>, Barbara Bednarczyk-Cwynar<sup>2</sup>, Robert Kleszcz<sup>1</sup>, Jacek Kujawski<sup>2</sup>, Wanda Baer-Dubowska<sup>1\*</sup>

<sup>1</sup> Department of Pharmaceutical Biochemistry, Poznan University of Medical Sciences, 4, Święcicki Street, 60-781 Poznań, Poland

<sup>2</sup> Department of Organic Chemistry, Poznan University of Medical Sciences, 6, Grunwaldzka Street, 60-780 Poznań, Poland

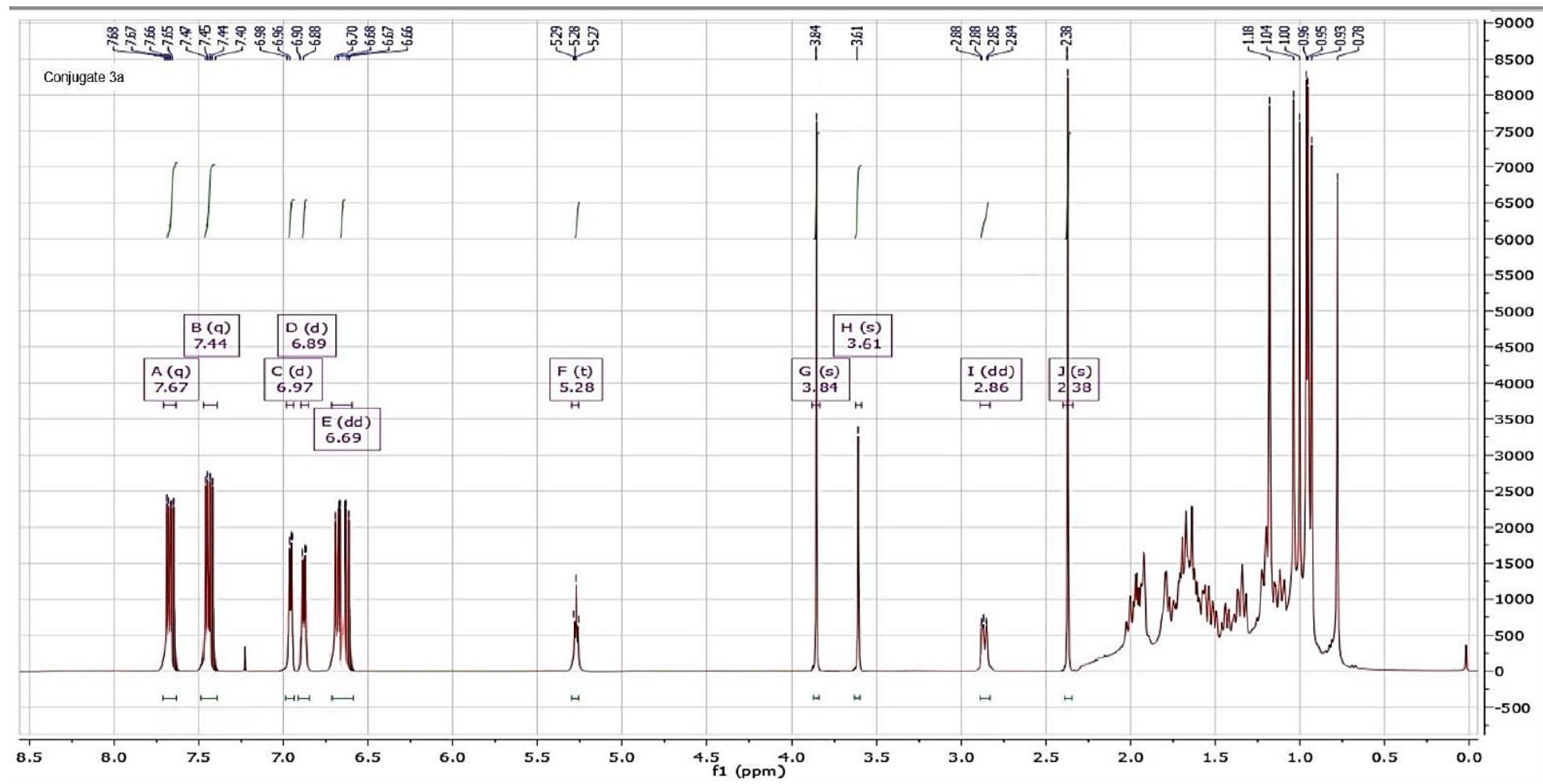
\*Corresponding author

e-mail: baerw@ump.edu.pl, phone: (+48) 61 854 66 25, fax: (+48) 61 854 66 20

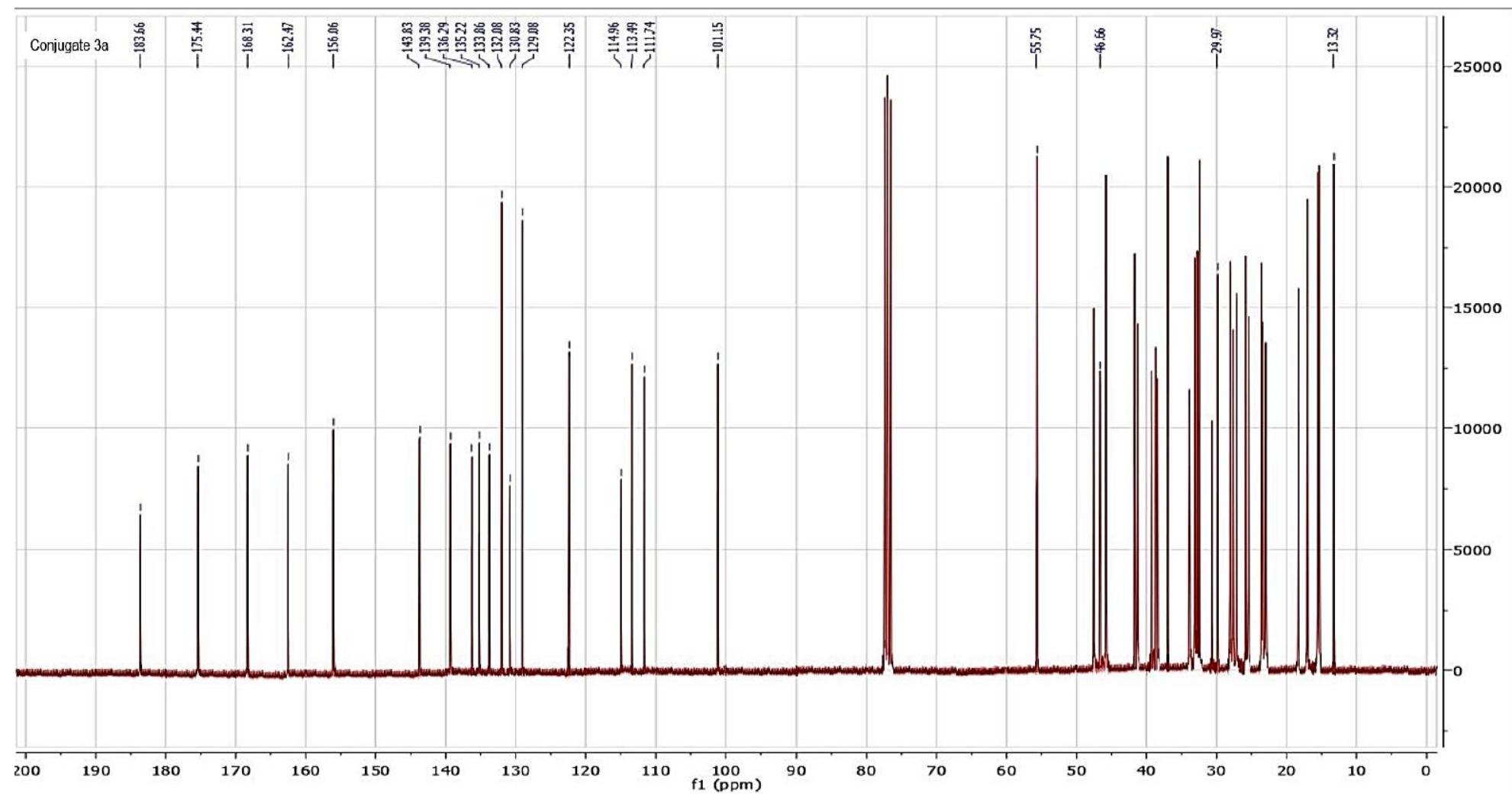
### **Content:**

**<sup>1</sup>H NMR** and **<sup>13</sup>C NMR** spectra of new compounds: **3a**, **3b**, **3c** and **3d**

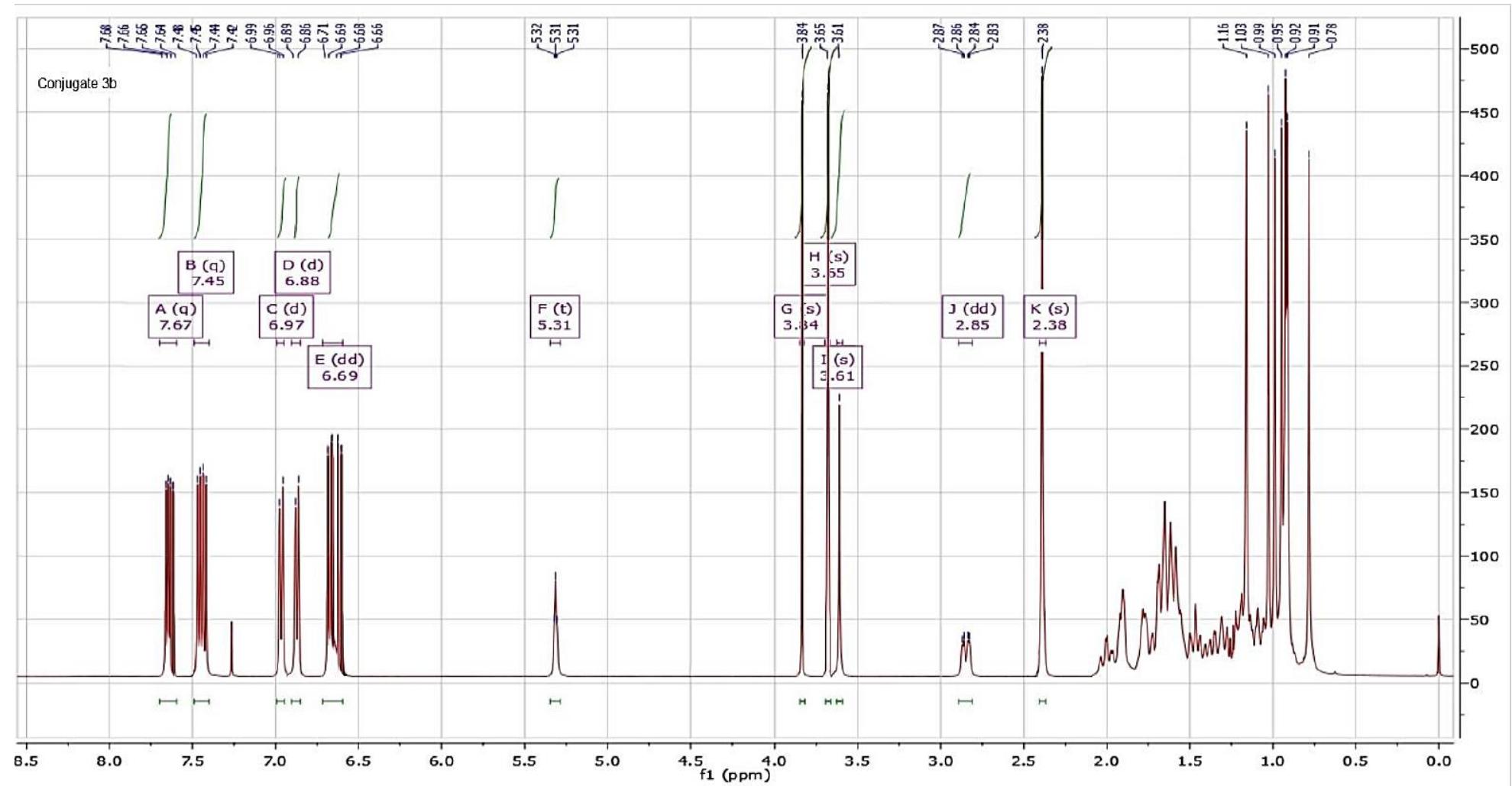
**Figure S1.**  $^1\text{H}$  NMR spectra of conjugate **3a**, 3-indomethacinoxyiminoolean-12-en-28-oic acid



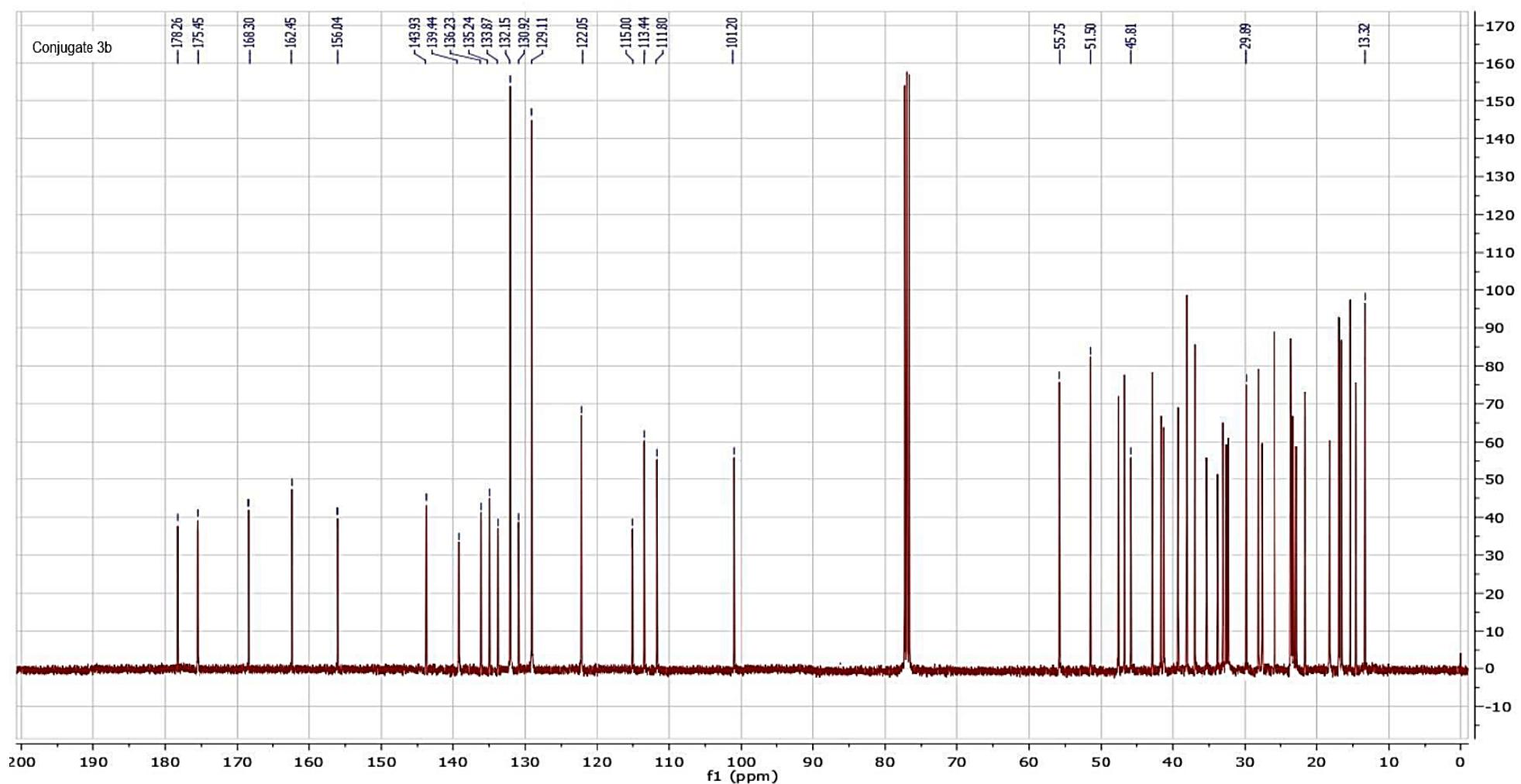
**Figure S2.**<sup>13</sup>C NMR spectra of conjugate **3a**, 3-indomethacinoxyiminoolean-12-en-28-oic acid



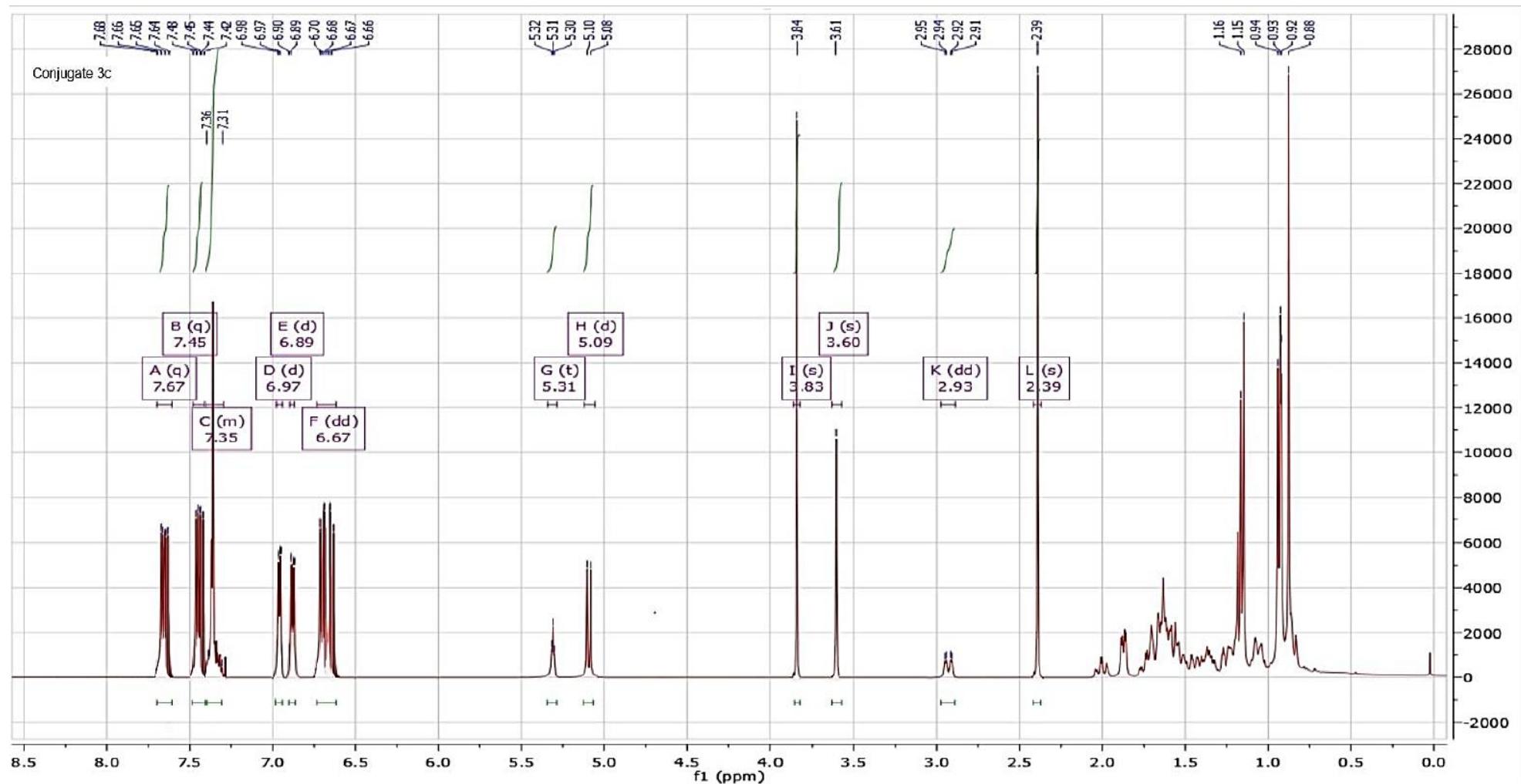
**Figure S3.**  $^1\text{H}$  NMR spectra of conjugate **3b**, *3-indomethacinoxyiminoolean-12-en-28-oic acid methyl ester*



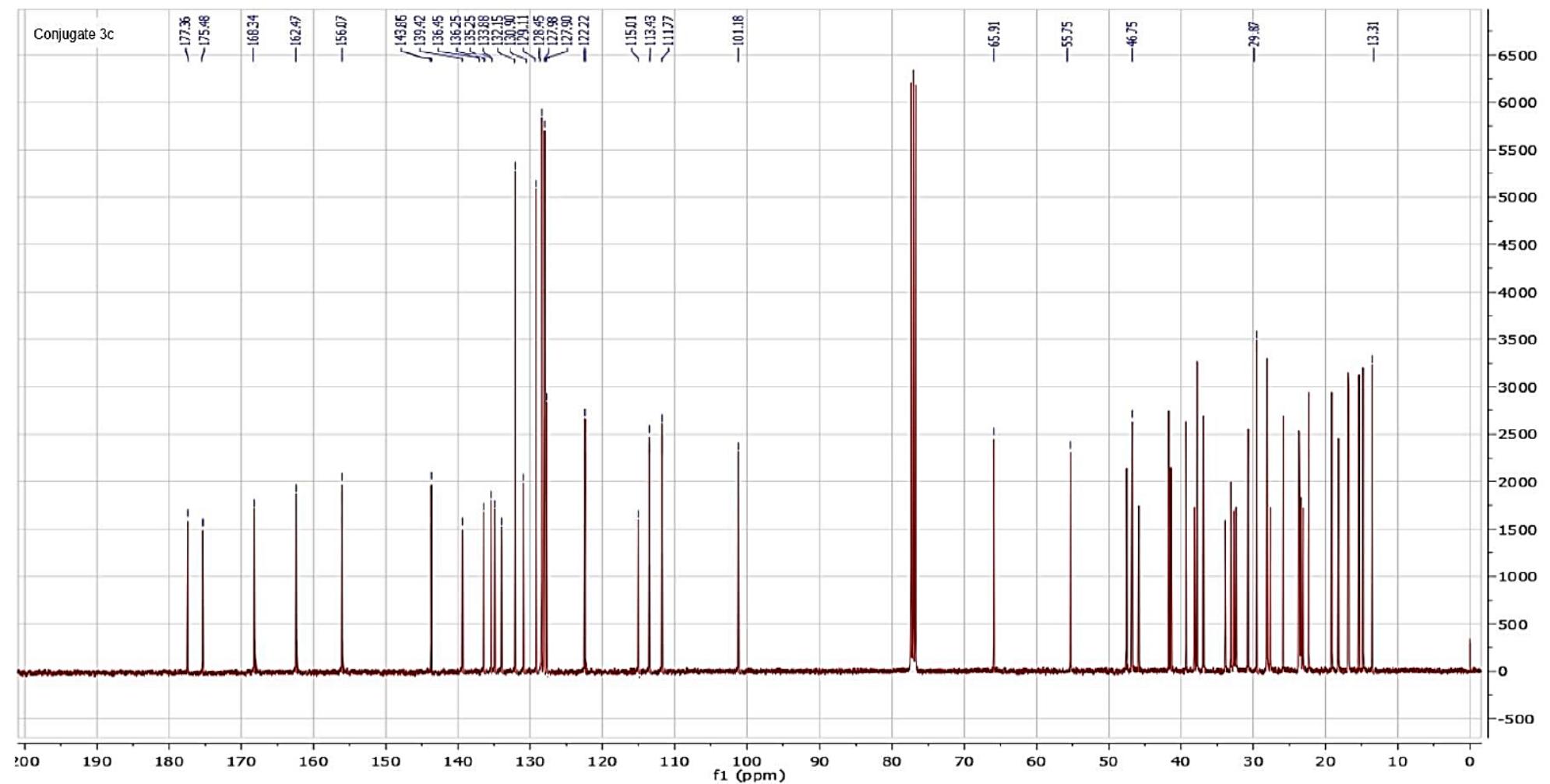
**Figure S4.**  $^{13}\text{C}$  NMR spectra of conjugate **3b**, *3-indomethacinoxyiminoolean-12-en-28-oic acid methyl ester*



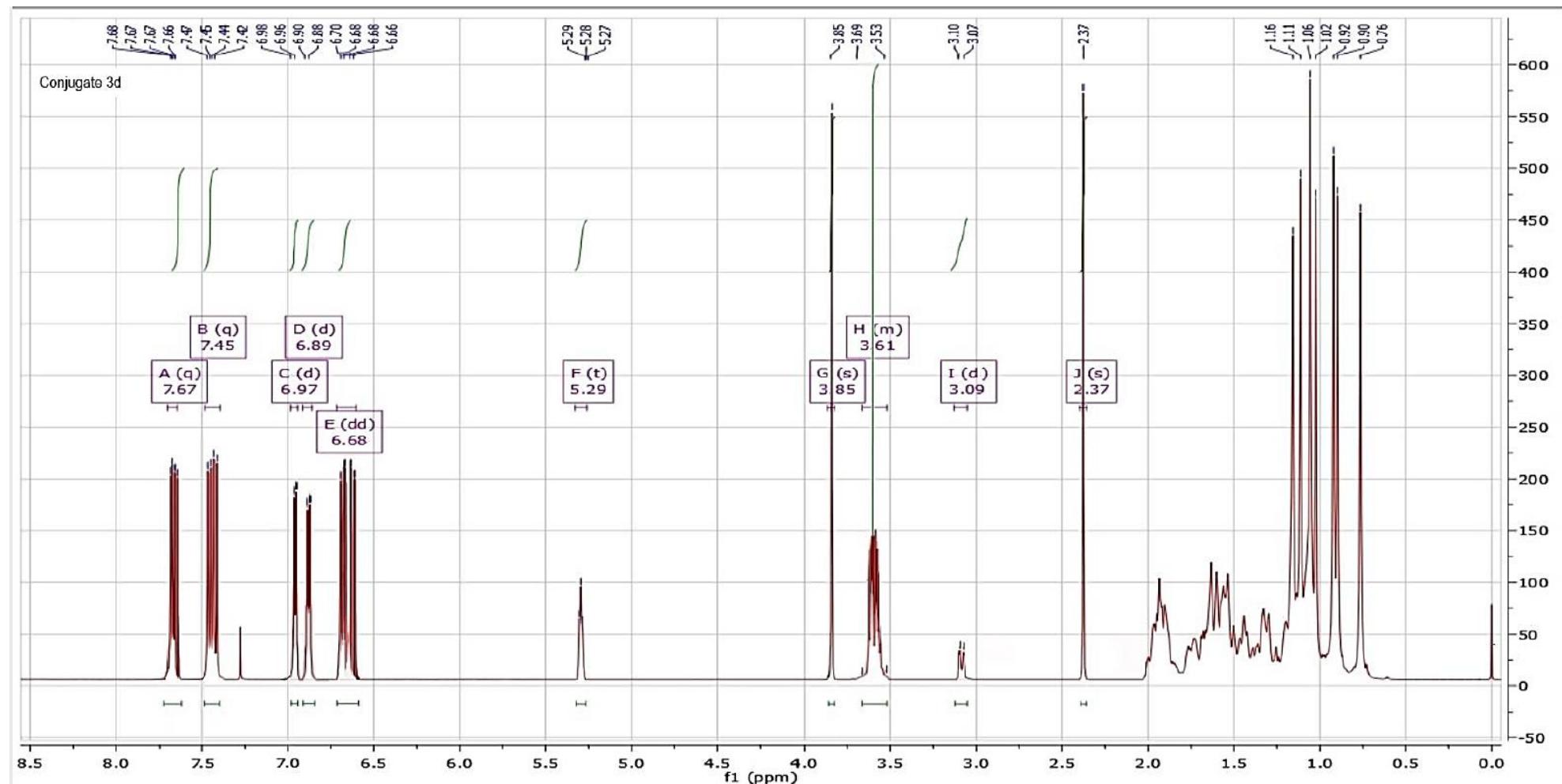
**Figure S5.**  $^1\text{H}$  NMR spectra of conjugate **3c**, *3-indomethacinoxyiminoolean-12-en-28-oic acid benzyl ester*



**Figure S6.**  $^{13}\text{C}$  NMR spectra of conjugate **3c**, *3-indomethacinoxyiminoolean-12-en-28-oic acid benzyl ester*



**Figure S7.**  $^1\text{H}$  NMR spectra of conjugate **3d**, *3-indomethacinoxyiminoolean-12-en-28-oic acid morpholide*



**Figure S8.**  $^{13}\text{C}$  NMR spectra of conjugate **3d**, *3-indomethacinoxyiminoolean-12-en-28-oic acid morpholide*

