

**Supplementary Information, *S. Afr. J. Chem.***

**Synthesis, Crystal Structure and Anti-ischemic Activity of (*E*)-1-(4-(Bis(4-methoxy-phenyl)methyl)piperazin-1-yl)-3-(4-chlorophenyl)-prop-2-en-1-one**

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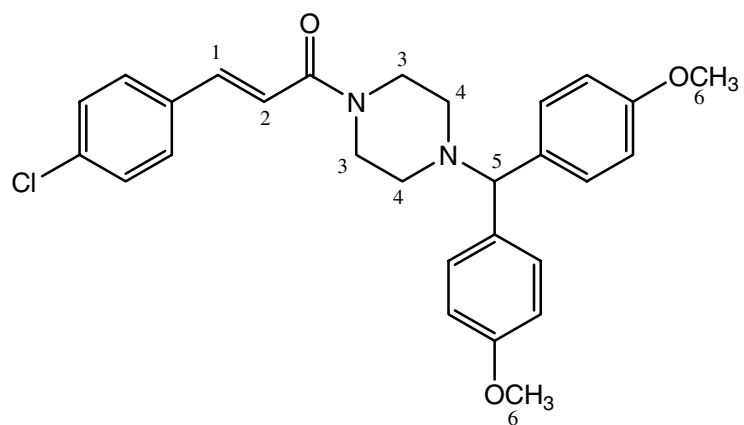
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**Material and Methods**

<sup>1</sup>H NMR and <sup>13</sup>C NMR were recorded on a Bruker ACF-300 MHz instrument (Bruker) with CDCl<sub>3</sub> as the solvent and tetramethylsilane as an internal standard (chemical shifts are expressed as  $\delta$  values,  $J$  in hertz). High resolution mass spectra (HRMS) was recorded on a MALDI Micro MX instrument (Waters). IR spectra was recorded on a Bruker Tensor 27 FT-IR instrument (Bruker).



**compound 5**

**Table 1:**  $^1\text{H}$  NMR Chemical Shifts ( $\delta$ , ppm) and Coupling Constants ( $J$ , Hz) of compound **5**

No.	Compound 5
1	7.56 (d, $J = 15.3$ Hz)
2	6.77 (d, $J = 15.0$ Hz)
3	3.52 (m)
4	2.39 (m)
5	4.18 (s)
6	3.76 (s)

**Figure 1**  $^1\text{H}$  NMR spectrum of compound **5**

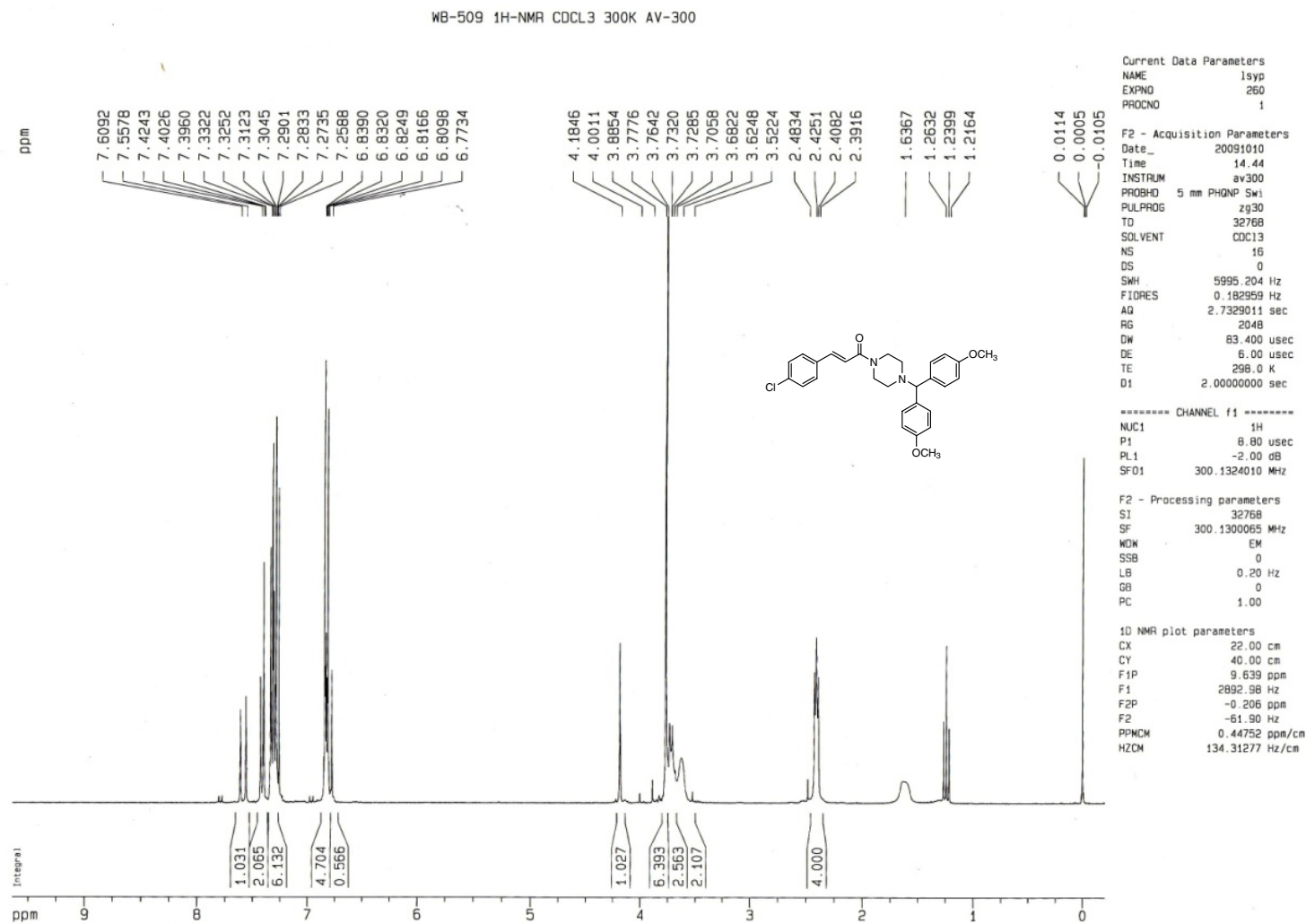
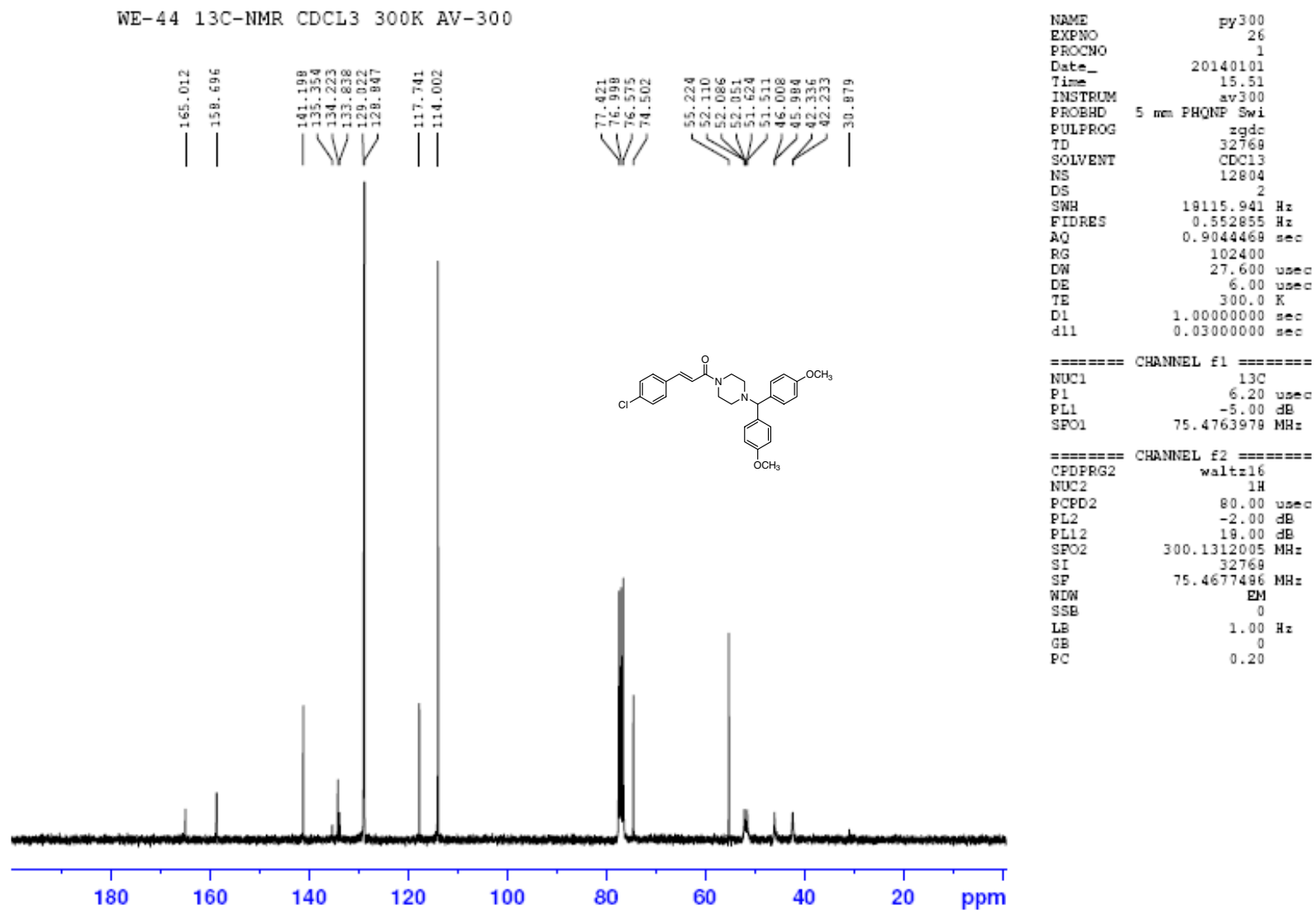
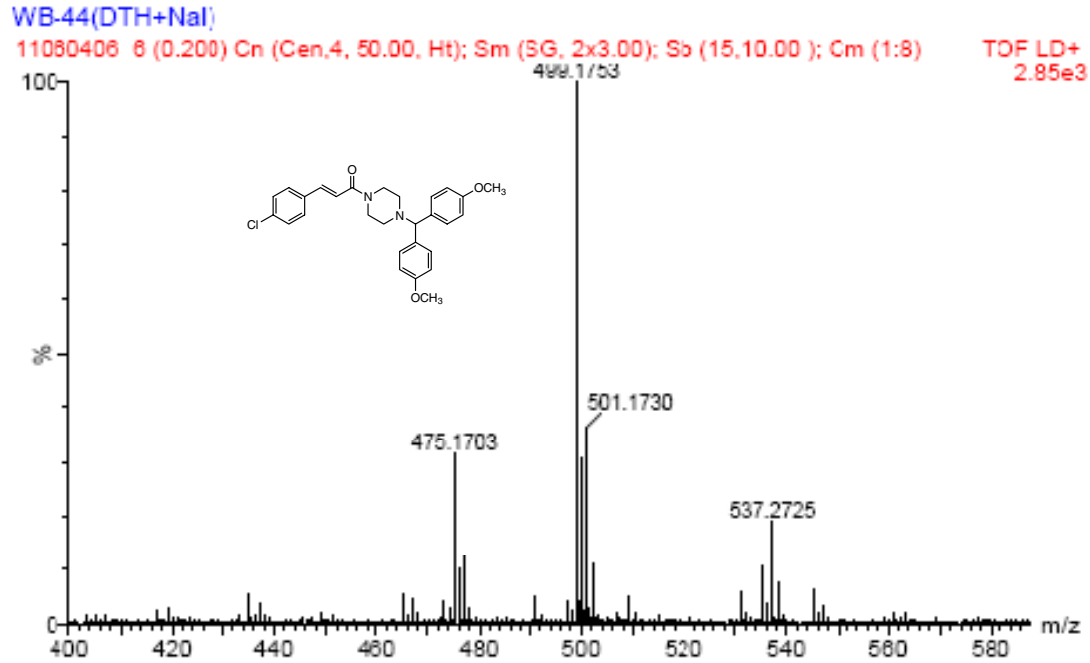


Figure 2  $^{13}\text{C}$  NMR spectrum of 5



**Figure 3** HRMS spectrum of **5**



Elemental Composition Report

Single Mass Analysis

Tolerance = 10.0 PPM / DDC: min = -10.0, max = 100.0

Isotope cluster parameters: Separation = 1.0 Abundance = 1.0%

Monoisotopic Mass, Odd and Even Electron Ions

60 formula(e) evaluated with 1 results within limits (up to 50 closest results for each mass)

Mass	Calc. Mass	mDa	PPM	DBE	Score	Formula
499.1753	499.1764	-1.1	-2.3	14.5	1	C28 H29 N2 O3 Na Cl

**Figure 4** IR spectrum of compound **5**

