

SPECTROSCOPIC AND HPLC ANALYSIS OF COMPOUNDS

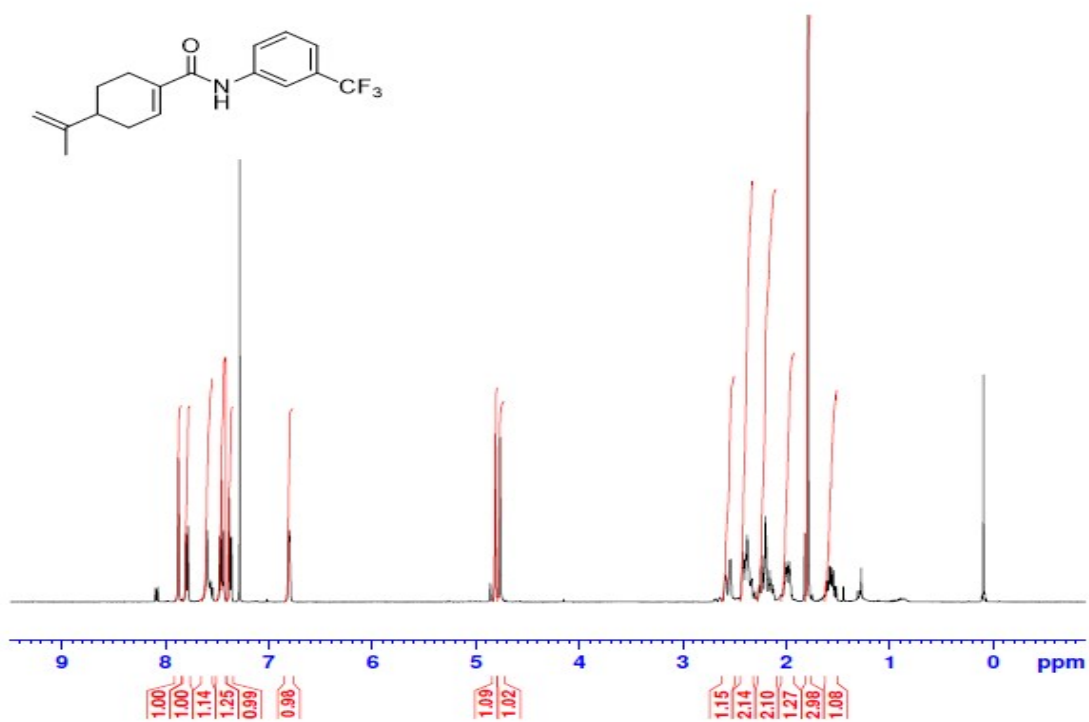


Figure S1 ¹H NMR spectrum of 4-(prop-1-en-2-yl)-N-(3-(trifluoromethyl)phenyl)cyclohex-1-ene-1-carboxamide (**4**) obtained on NMR spectrometer (Bruker 400 Ultra Shield™)

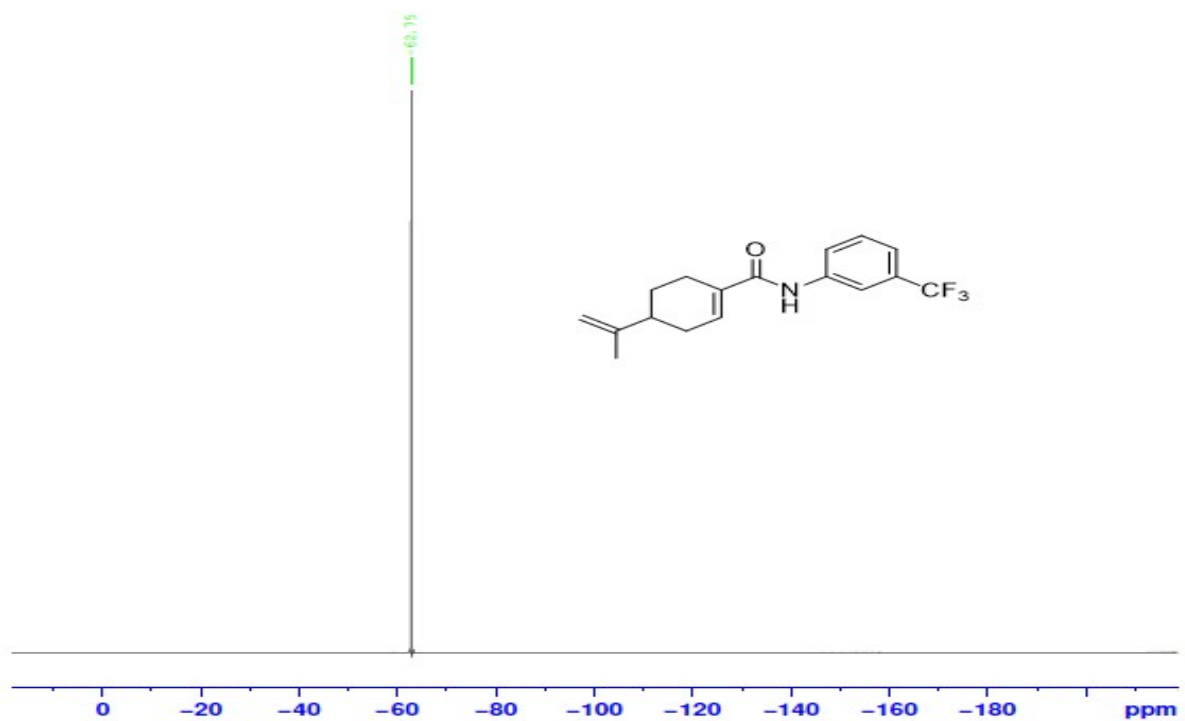


Figure S2 ^{19}F NMR spectrum of 4-(prop-1-en-2-yl)-N-(3-(trifluoromethyl)phenyl)cyclohex-1-ene-1-carboxamide (**4**) obtained on NMR spectrometer (Bruker 400 Ultra Shield™)

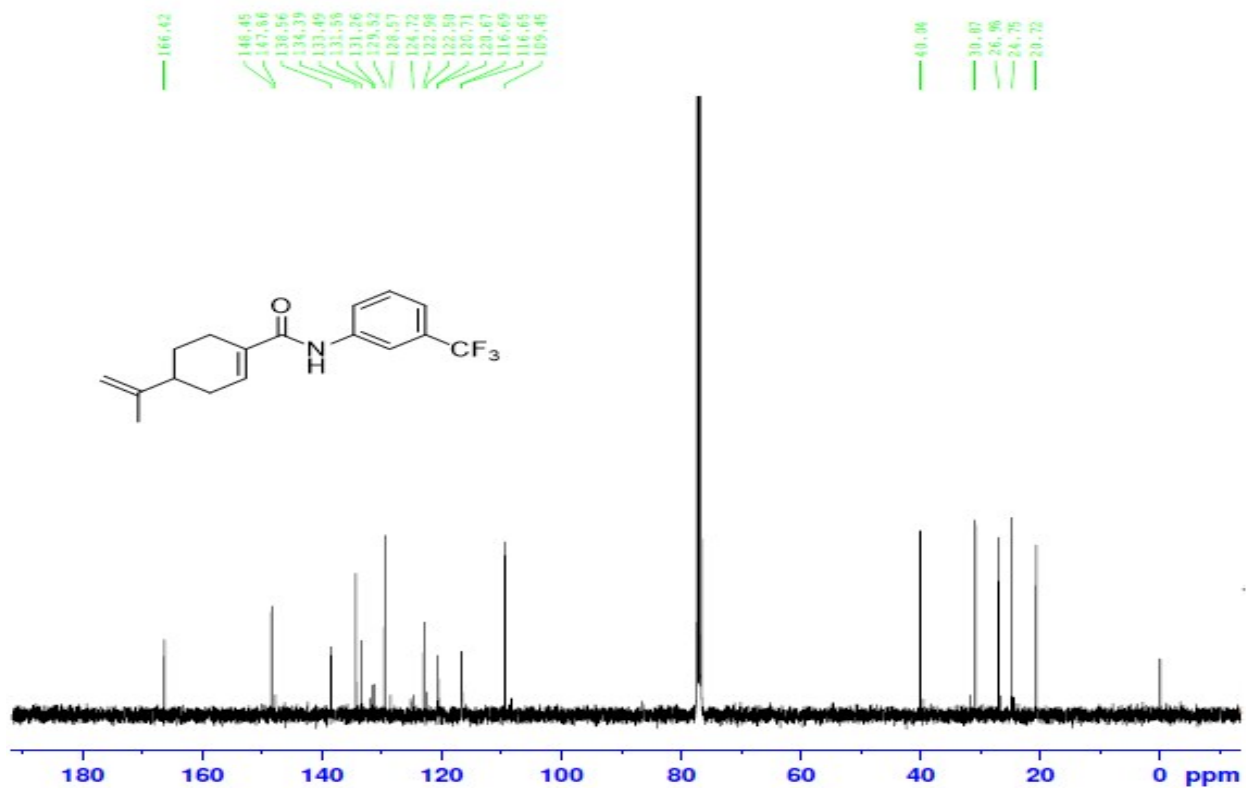


Figure S3 ¹³C NMR spectrum of 4-(prop-1-en-2-yl)-N-(3-(trifluoromethyl)phenyl)cyclohex-1-ene-1-carboxamide (**4**) obtained on NMR spectrometer (Bruker 400 Ultra Shield™)

Spectrum from 4.wiff (sample 1) - 4, ..., +TOF MS (100 - 2500) from 6.316 min

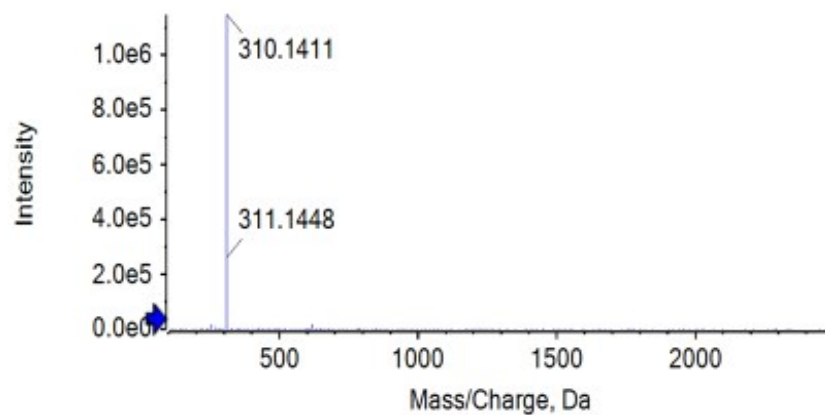


Figure S4 HRMS of 4-(prop-1-en-2-yl)-N-(3-(trifluoromethyl)phenyl)cyclohex-1-ene-1-carboxamide (**4**), [M+H] peak

6_171130144811#231 RT: 0.54 AV: 1 NL: 2.29E3
T: ITMS - c ESI Full ms [50.00-600.00]

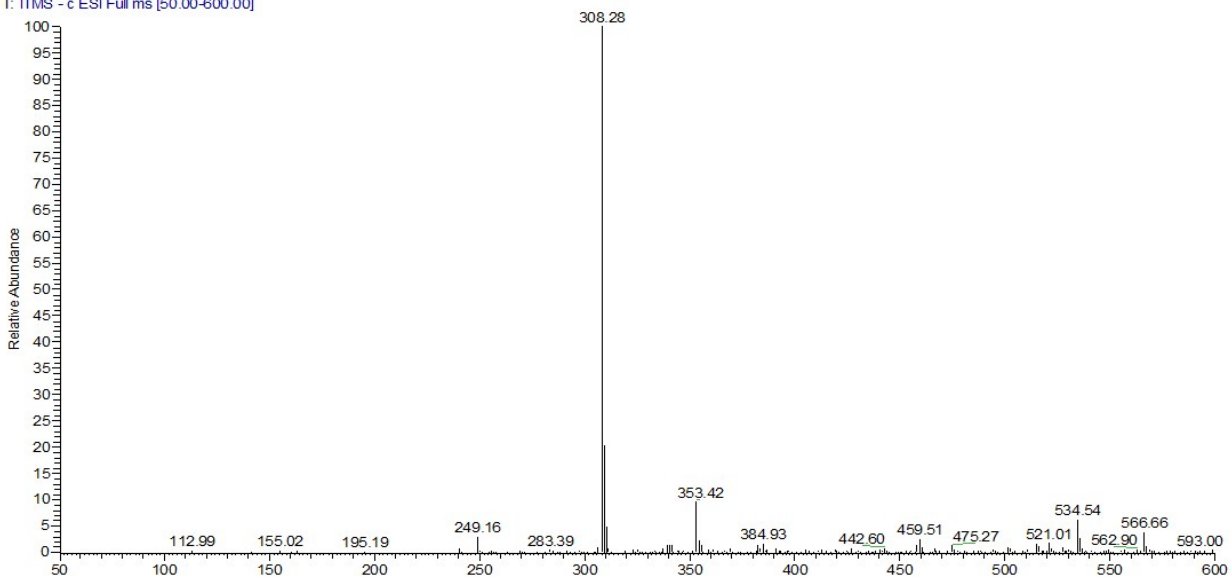


Figure 5 negative ESI-mass spectrum of 4-(prop-1-en-2-yl)-N-(3-(trifluoromethyl)phenyl)cyclohex-1-ene-1-carboxamide (**4**), [M-H] peak obtained on liquid- Mass spectrometer

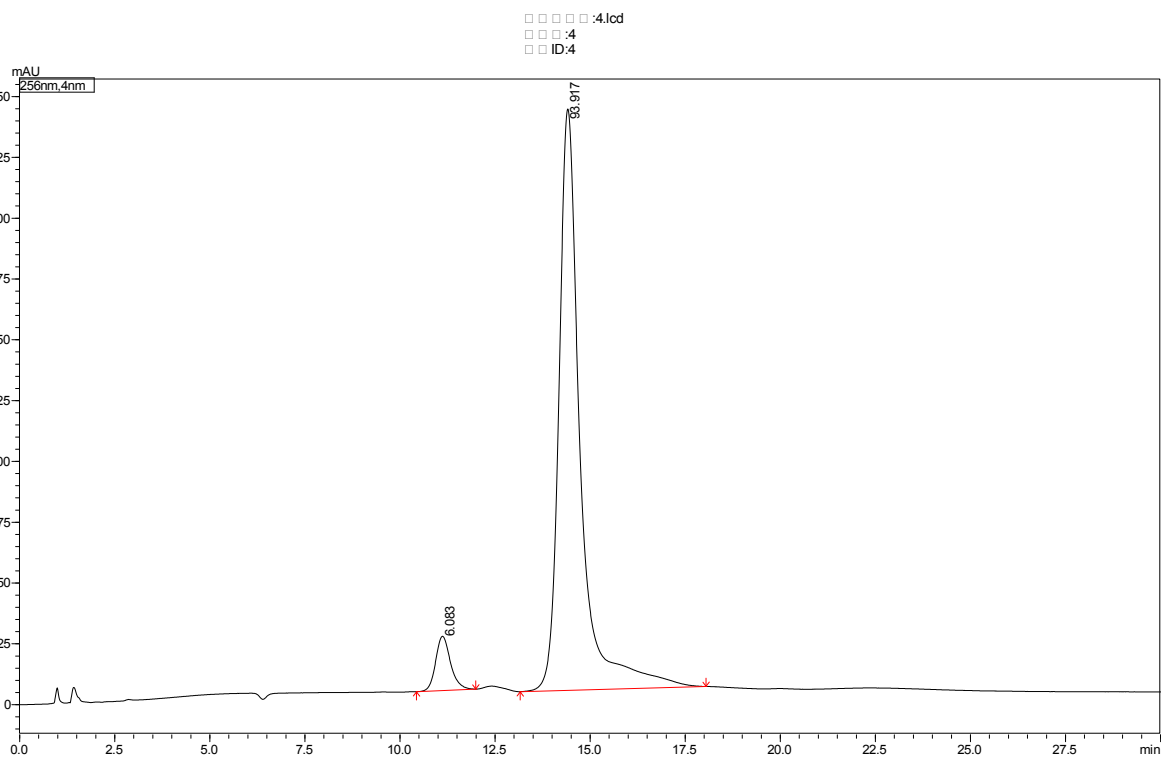


Figure S6 HPLC CHROMATOGRAPH OF 4-(prop-1-en-2-yl)-N-(3-(trifluoromethyl)phenyl)cyclohex-1-ene-1-carboxamide (**4**) obtained on a Shimadzu Hplc system (conditions: λ_{max} = 256.0 nm, mobile phase methanol/double-deionized water= 70/30, flow rate = 1.0 ml, temperature= 30 °C, analysis time = 0-30 mins)

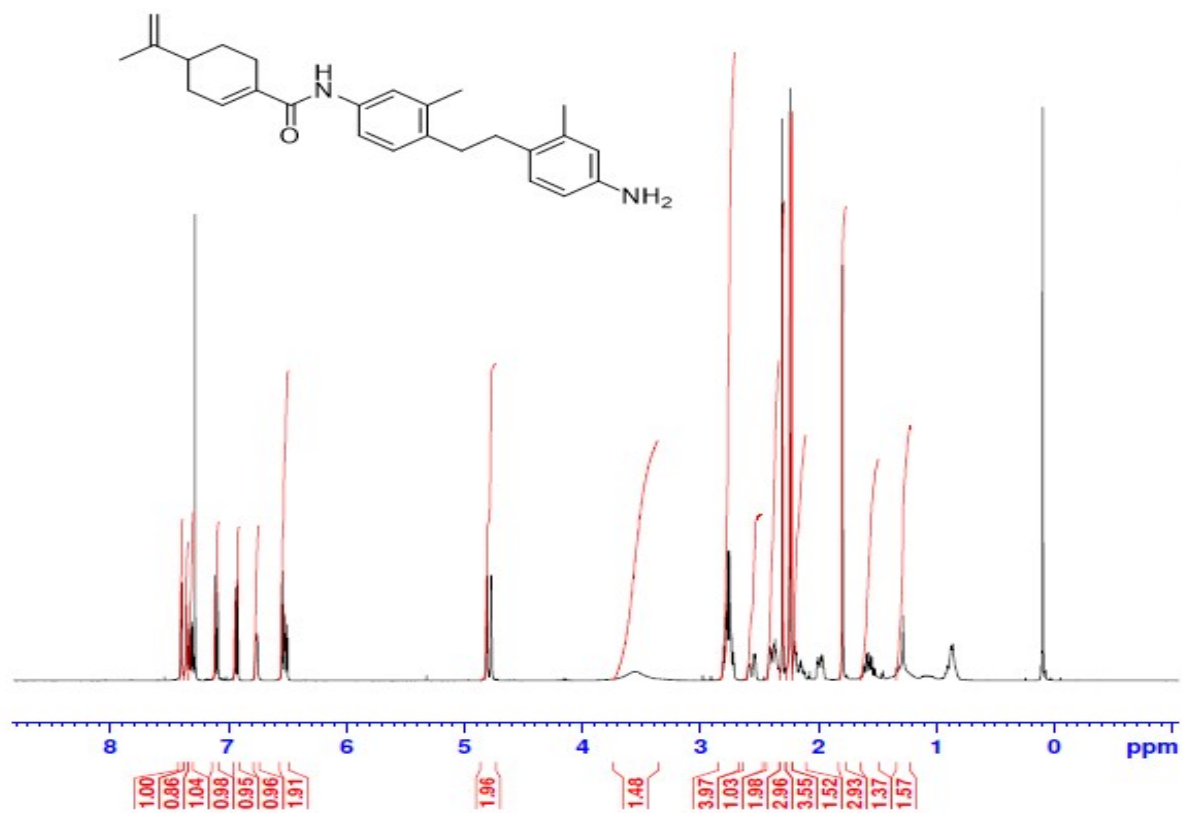


Figure S7 ¹H NMR spectrum of N-(4-(4-amino-2-methylphenethyl)-3-methylphenyl)-4-(prop-1-en-2-yl)cyclohex-1-ene-1-carboxamide (**5**) obtained on NMR spectrometer (Bruker 400 Ultra Shield™)

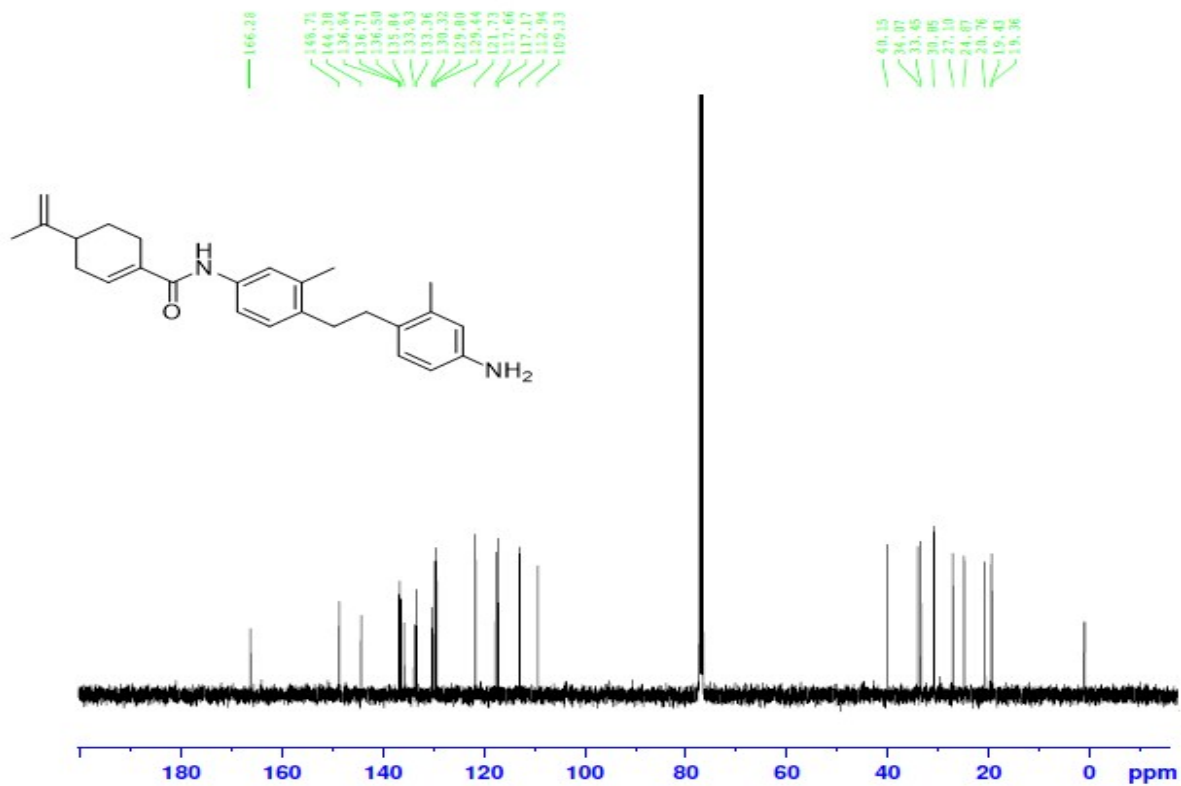


Figure S8 ¹³C NMR spectrum of N-(4-(4-amino-2-methylphenethyl)-3-methylphenyl)-4-(prop-1-en-2-yl)cyclohex-1-ene-1-carboxamide (5) obtained on NMR spectrometer (Bruker 400 Ultra Shield™)

Spectrum from 5.wiff (sample 1) - 5, ..., +TOF MS (100 - 2500) from 4.808 min

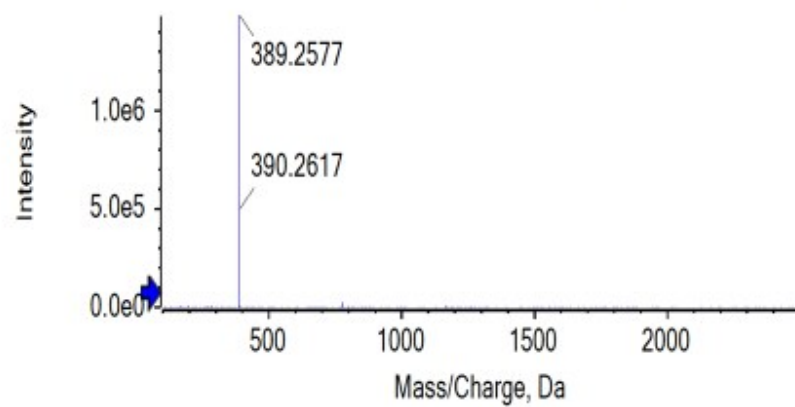


Figure S9 HRMS OF N-(4-(4-amino-2-methylphenethyl)-3-methylphenyl)-4-(prop-1-en-2-yl)cyclohex-1-ene-1-carboxamide (5) [M+H] peak

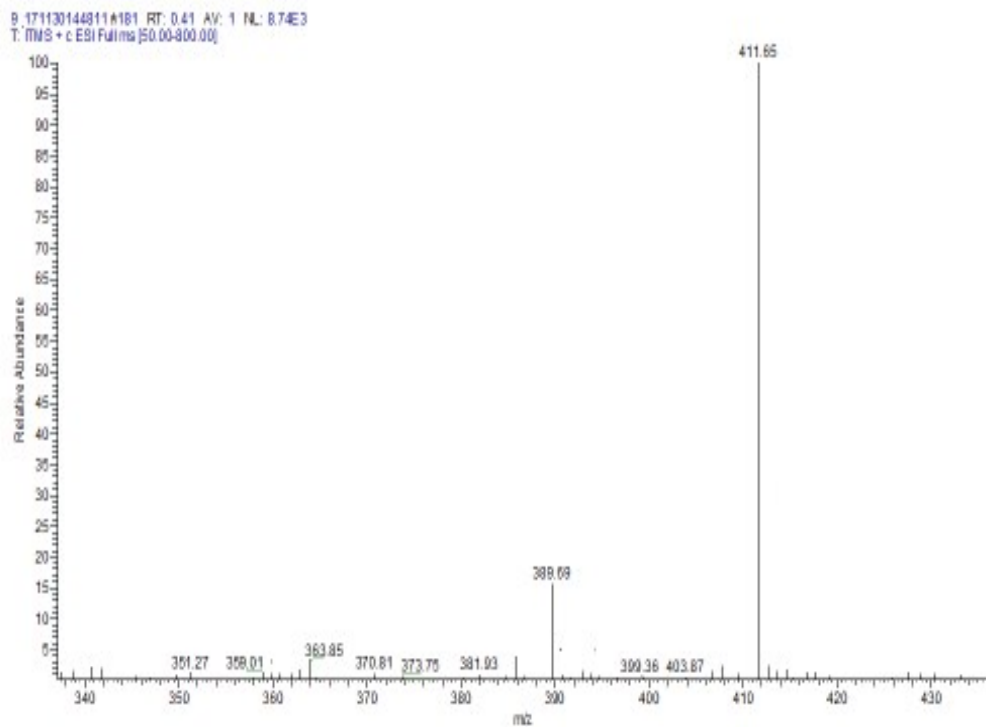


Figure S10 ESI-mass spectrum of N-(4-(4-amino-2-methylphenethyl)-3-methylphenyl)-4-(prop-1-en-2-yl)cyclohex-1-ene-1-carboxamide (5), [M+H] and [M+Na] peaks obtained on liquid-mass spectrometer

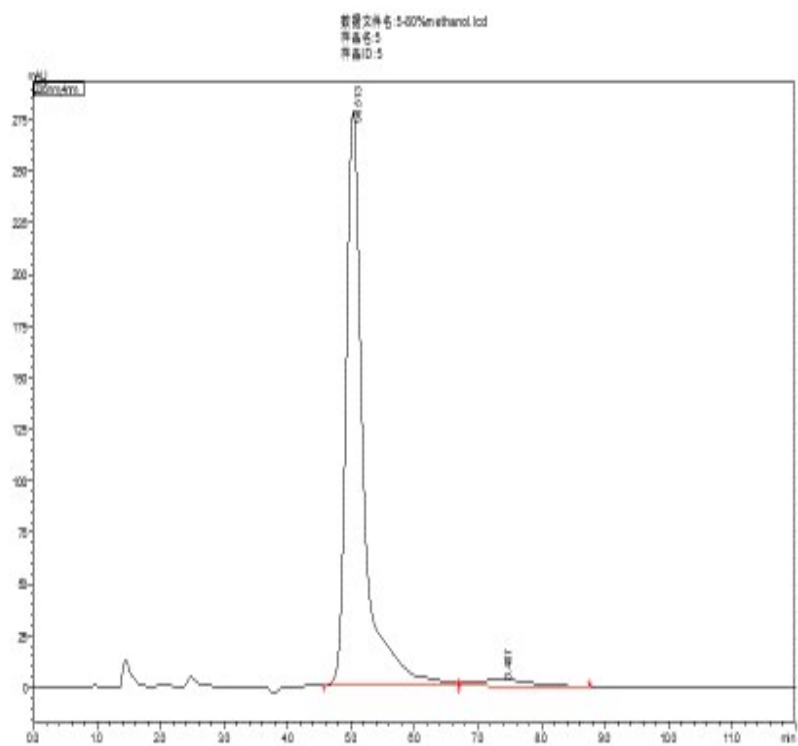


Figure S11 HPLC chromatograph of N-(4-(4-amino-2-methylphenethyl)-3-methylphenyl)-4-(prop-1-en-2-yl)cyclohex-1-ene-1-carboxamide (**5**) obtained on a Shimadzu Hplc system (conditions: λ_{max} = 236.0 nm, mobile phase methanol/double-deionized water= 80/20, flow rate = 1.0 ml, temperature= 30 °C, analysis time = 0-20 mins)

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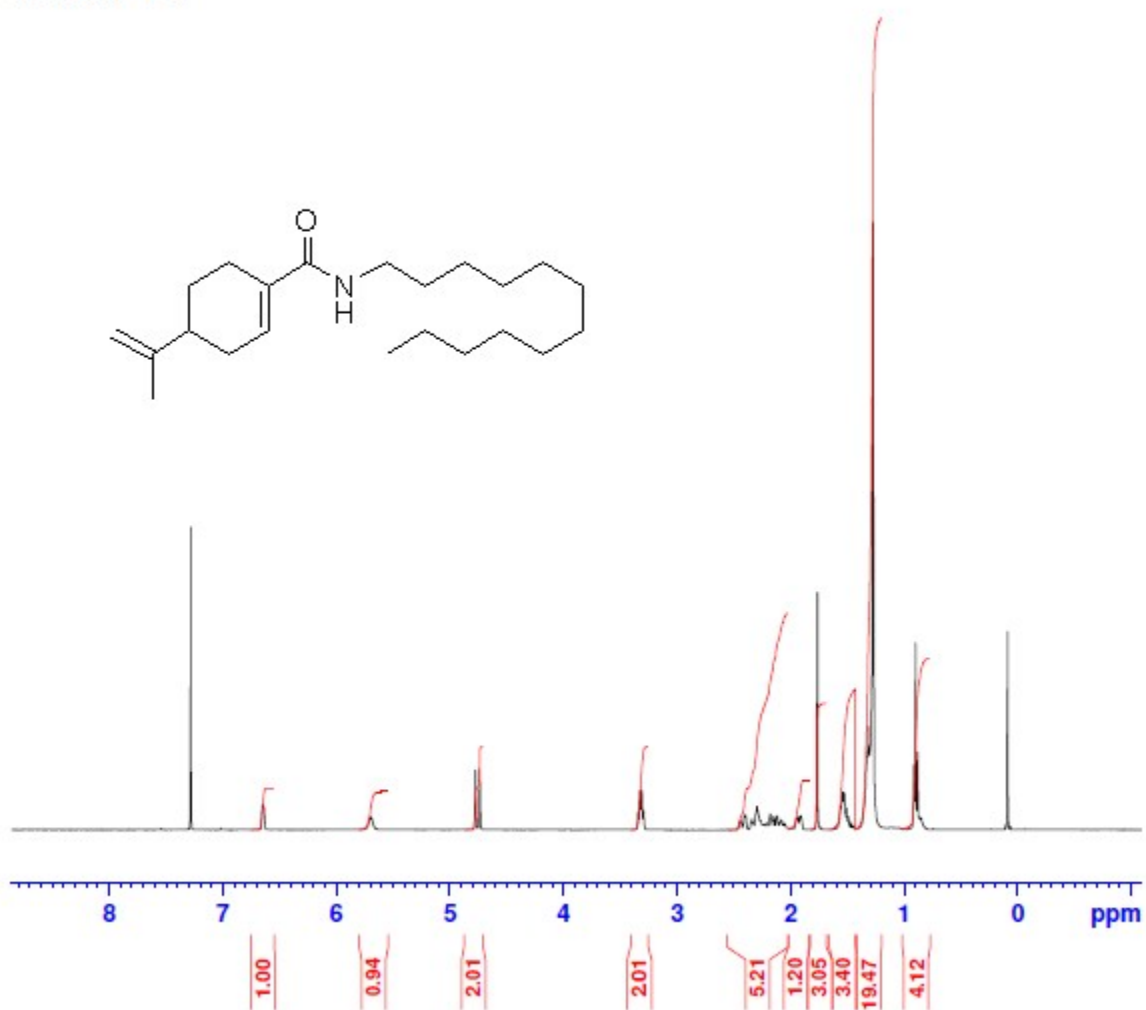


Figure S12 ¹H NMR spectrum of N-dodecyl-4-(prop-1-en-2-yl)cyclohex-1-ene-1-carboxamide (**2**) obtained on NMR spectrometer (Bruker 400 Ultra Shield™)

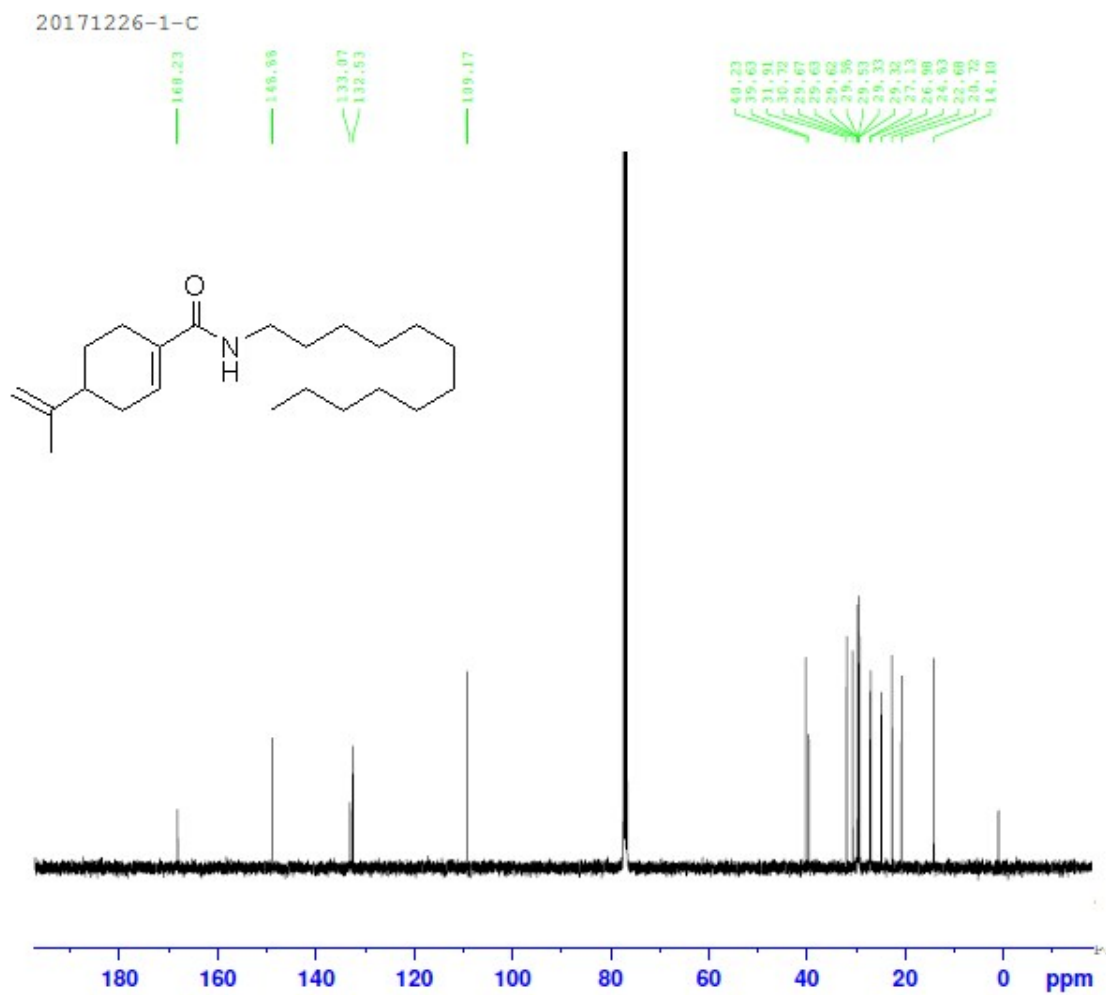


Figure S13 ¹³CNMR spectrum of N-dodecyl-4-(prop-1-en-2-yl)cyclohex-1-ene-1-carboxamide (**2**) obtained on NMR spectrometer (Bruker 400 Ultra Shield™)

4_171130144811#71 RT: 0.15 AV: 1 NL: 1.87E4
T: ITMS + cESI Full ms [50.00-600.00]

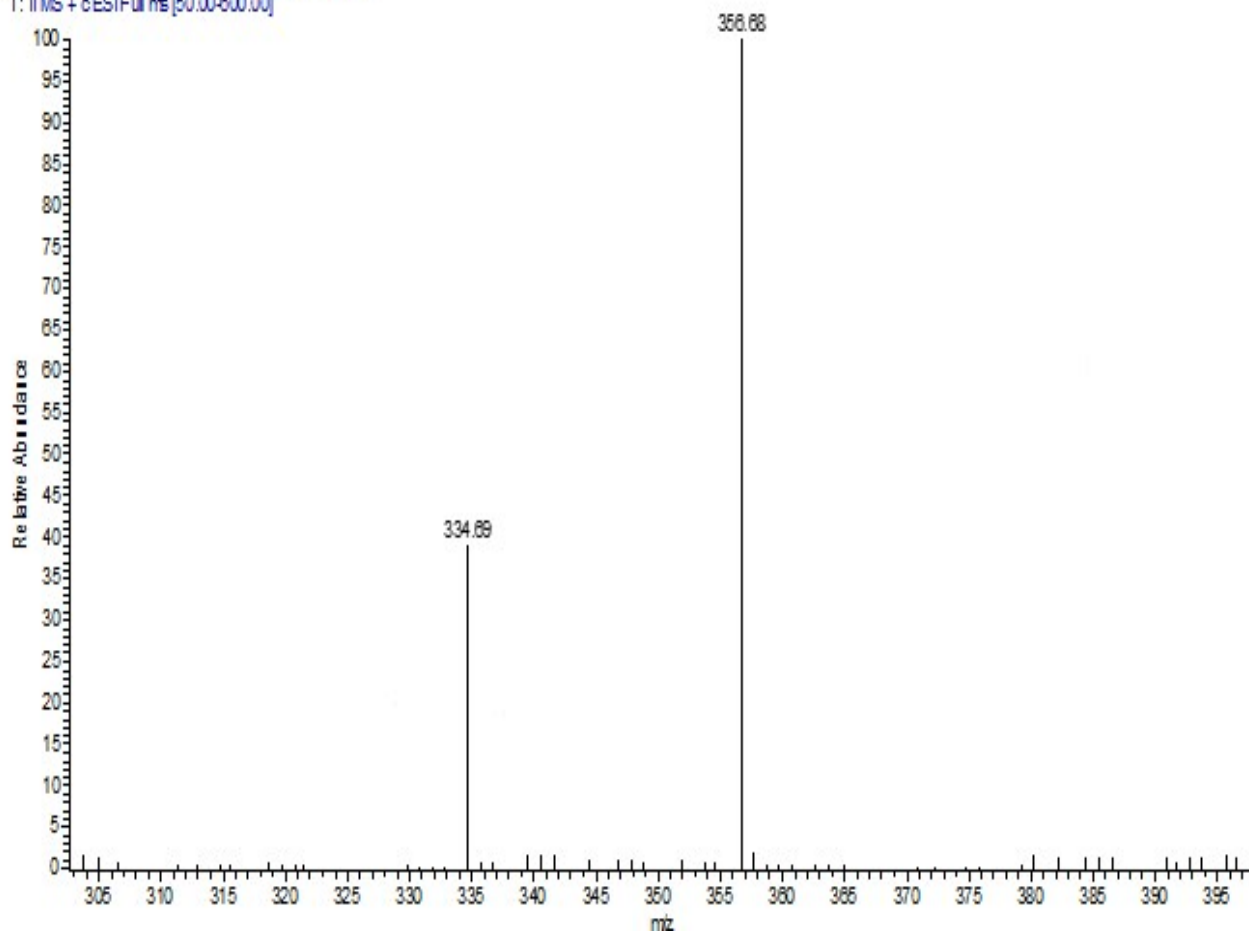


Figure S14 ESI mass spectrum of N-dodecyl-4-(prop-1-en-2-yl)cyclohex-1-ene-1-carboxamide (2), [M+H] and [M+Na] peaks obtained on liquid- mass spectrometer

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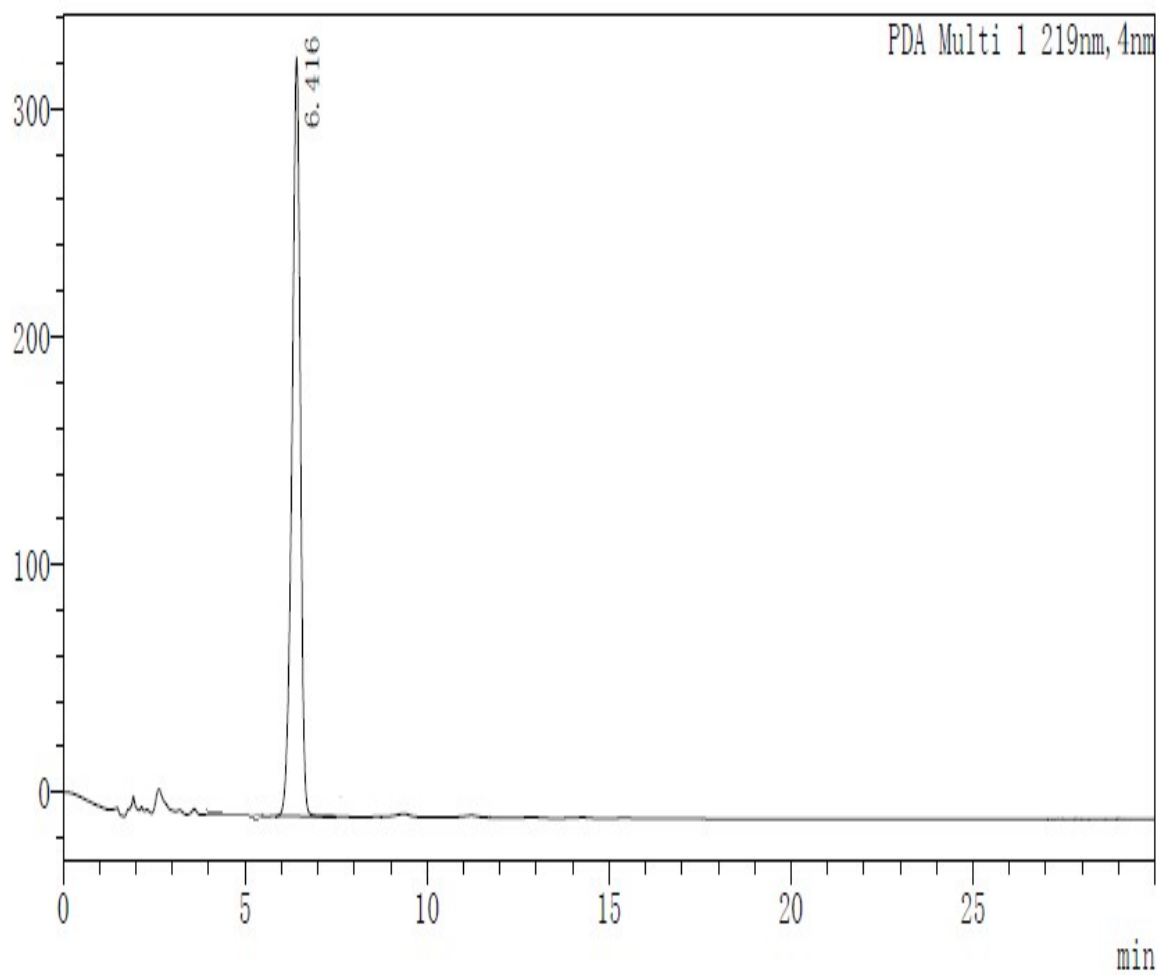


Figure 15S HPLC chromatograph of N-dodecyl-4-(prop-1-en-2-yl)cyclohex-1-ene-1-carboxamide (2) obtained on a Shimadzu Hplc system (conditions: λ_{max} = 219.0 nm, mobile phase methanol/double-deionized water= 90/10, flow rate = 1.0 ml, temperature= 30 °C, analysis time = 0-30 mins)