



Article

Synthetic Inhibitors of Snake Venom Enzymes: Thioesters Derived From 2-Sulfenyl Ethylacetate

Isabel C. Henao Castañeda 1,*, Jaime A. Pereañez 2 and Lina M. Preciado 2

SUPPLEMENTARY MATERIAL

Figure S1. ¹H NMR Spectrum Ethyl 2-((4-chlorobenzoyl)thio)acetate (I)

Figure S2. ¹³C NMR Spectrum Ethyl 2-((4-chlorobenzoyl)thio)acetate (I)

Figure S3. ¹H NMR Spectrum Ethyl 2-((3-nitrobenzoyl)thio)acetate (II)

Figure S4. ¹³C NMR Spectrum Ethyl 2-((3-nitrobenzoyl)thio)acetate (II)

Figure S5. ¹H NMR Spectrum Ethyl 2-((4-nitrobenzoyl)thio)acetate (III)

Figure S6. ¹³C NMR Spectrum Ethyl 2-((4-nitrobenzoyl)thio)acetate (III)

Figure S7. GC-MS Ethyl 2-((4-chlorobenzoyl)thio)acetate (I)

Figure S8. GC-MS Ethyl 2-((3-nitrobenzoyl)thio)acetate (II)

Figure S9. GC-MS Ethyl 2-((4-nitrobenzoyl)thio)acetate (III)

Figure S10. IR Ethyl 2-((4-clorobenzoyl)thio)acetate (I)

Figure S11. IR Ethyl 2-((3-nitrobenzoyl)thio)acetate (II)

Figure S12. IR Ethyl 2-((4-nitrobenzoyl)thio)acetate (III)

Pharmaceuticals 2019 2 of 9

Figure S1. ¹H NMR Spectrum Ethyl 2-((4-chlorobenzoyl)thio)acetate (I)

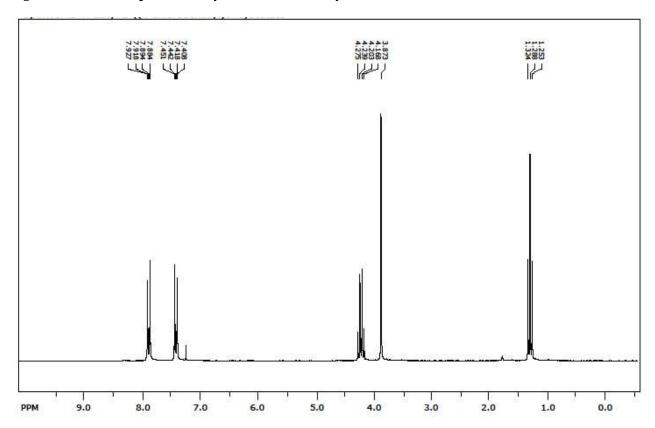
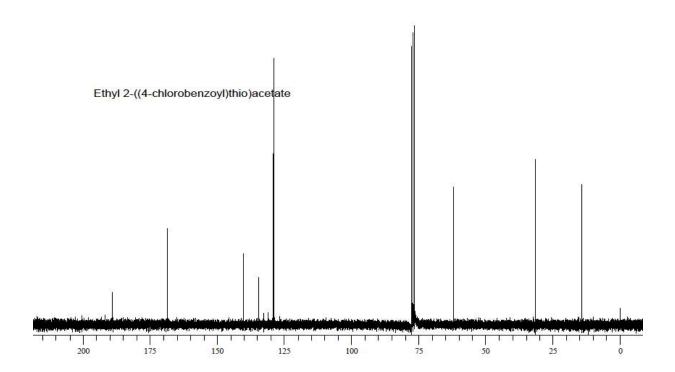


Figure S2. ¹³C NMR Spectrum Ethyl 2-((4-chlorobenzoyl)thio)acetate (I)



Pharmaceuticals 2019 3 of 9

Figure S3. ¹H NMR Spectrum Ethyl 2-((3-nitrobenzoyl)thio)acetate (II)

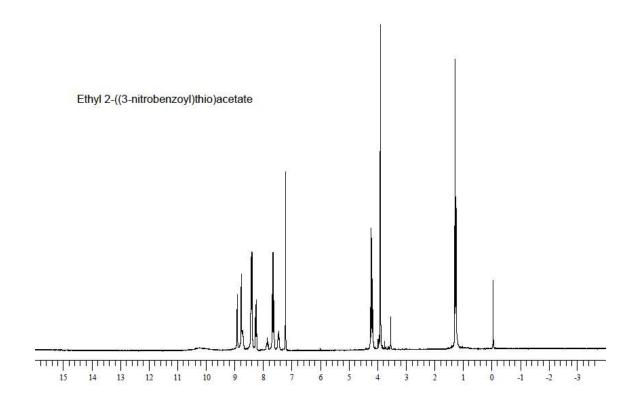
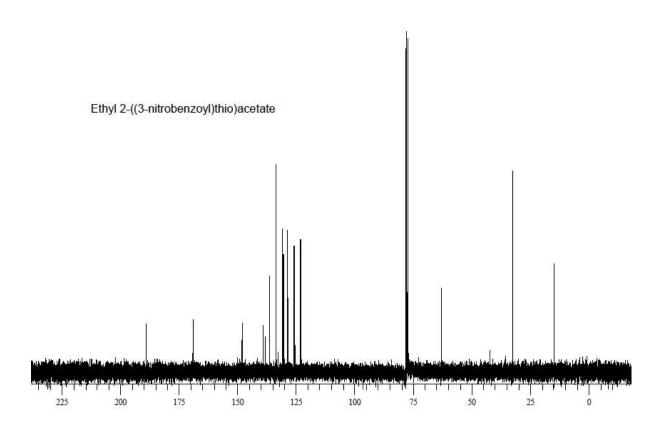


Figure S4. ¹³C NMR Spectrum Ethyl 2-((3-nitrobenzoyl)thio)acetate (II)



Pharmaceuticals 2019 4 of 9

Figure S5. ¹H NMR Spectrum Ethyl 2-((4-nitrobenzoyl)thio)acetate (III)

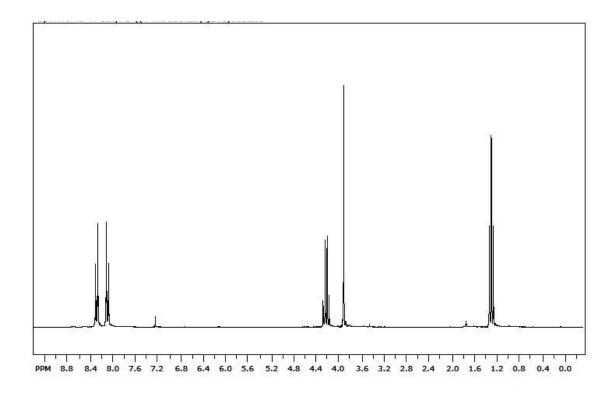
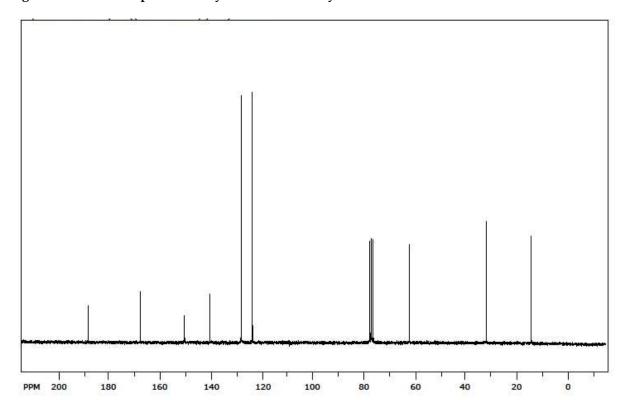


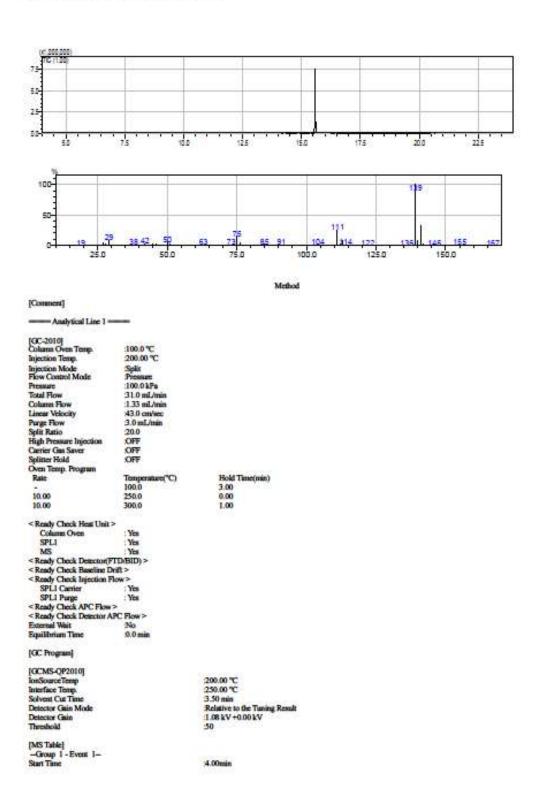
Figure S6. ¹³C NMR Spectrum Ethyl 2-((4-nitrobenzoyl)thio)acetate (III)



Pharmaceuticals 2019 5 of 9

Figure S7. GC-MS Ethyl 2-((4-chlorobenzoyl)thio)acetate (I)

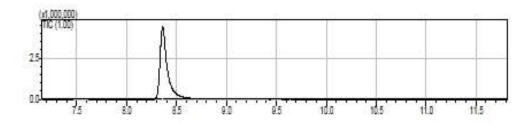
Ethyl 2-((4-chlorobenzoyl)thio)acetate

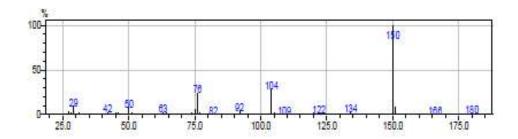


Pharmaceuticals 2019 6 of 9

Figure S8. GC-MS Ethyl 2-((3-nitrobenzoyl)thio)acetate (II)

Ethyl 2-((3-nitrobenzoyl)thio)acetate (II)





Method

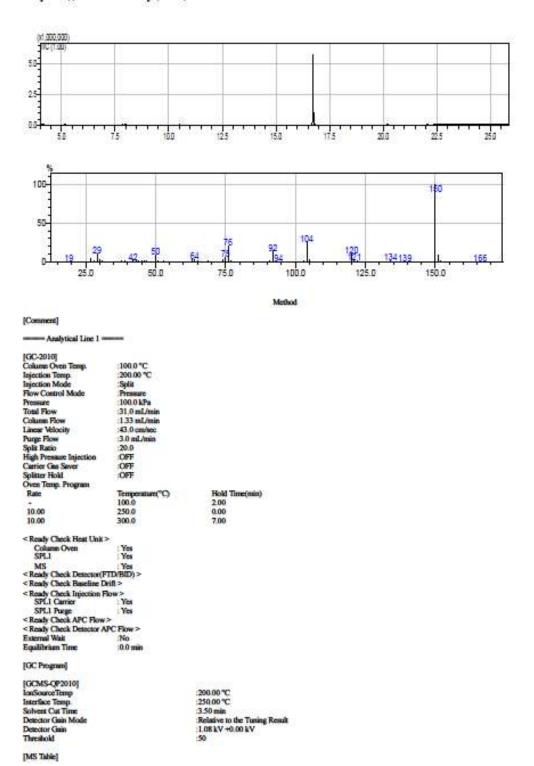
```
[Comment]
                 - Analytical Line 1 =
[GC-2010]
Column Oven Temp
Injection Temp
Injection Mode
                                                                            200.00°C
200.00°C
                                                                            Spite
Pressure
100.0 kPa
21.8 mL/min
0.90 mL/min
 Total Flow
Column Flow
Linear Velocity
Purge Flow
Split Ratio
High Pressure Inje
Caerier Gas Saver
                                                                            36.6 cm/sec
3.0 ml/min
                                                                            OFF
OFF
                                                                            Temper
200.0
300.0
                                                                                                                                                       Hold Time(min)
2.00
2.00
   5.00
< Ready Check Heat Unit >
Column Oven
SPLI
MS
                                                                             Yes
Yes
Yes
MS Yes

< Ready Check Detector(FTD/BID) >
< Ready Check Baseline Drift >
< Ready Check Injection Flow >
SPL1 Carrier Yes
SPL1 Purge Yes
< Ready Check APC Flow >
< Ready Check APC Flow >
< Ready Check Detector APC Flow >
External Wait No
Equilibrium Time 0.0 min
[GC Program]
[GCMS-QP2010]
```

Pharmaceuticals 2019 7 of 9

Figure S9. GC-MS Ethyl 2-((4-nitrobenzoyl)thio)acetate (III)

Ethyl 2-((4-nitrobenzoyl)thio)acetate



Pharmaceuticals 2019 8 of 9

Figure S10. IR Ethyl 2-((4-clorobenzoyl)thio)acetate (I)

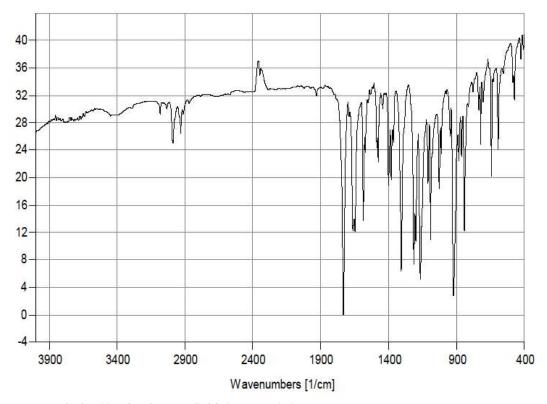
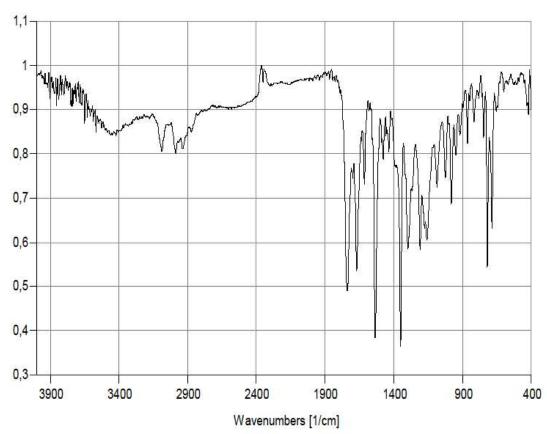
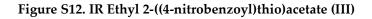
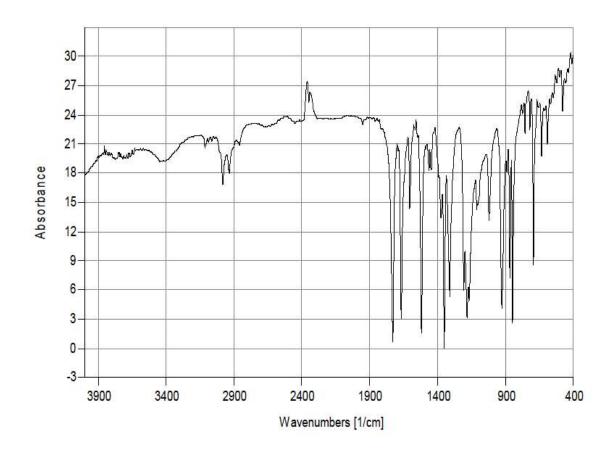


Figure S11. IR Ethyl 2-((3-nitrobenzoyl)thio)acetate (II)



Pharmaceuticals 2019 9 of 9







© 2019 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (http://creativecommons.org/licenses/by/4.0/).