

Supplementary Information

Synthesis, Antimicrobial and Cytotoxicity Studies of Some Novel Modified Strobilurin Derivatives

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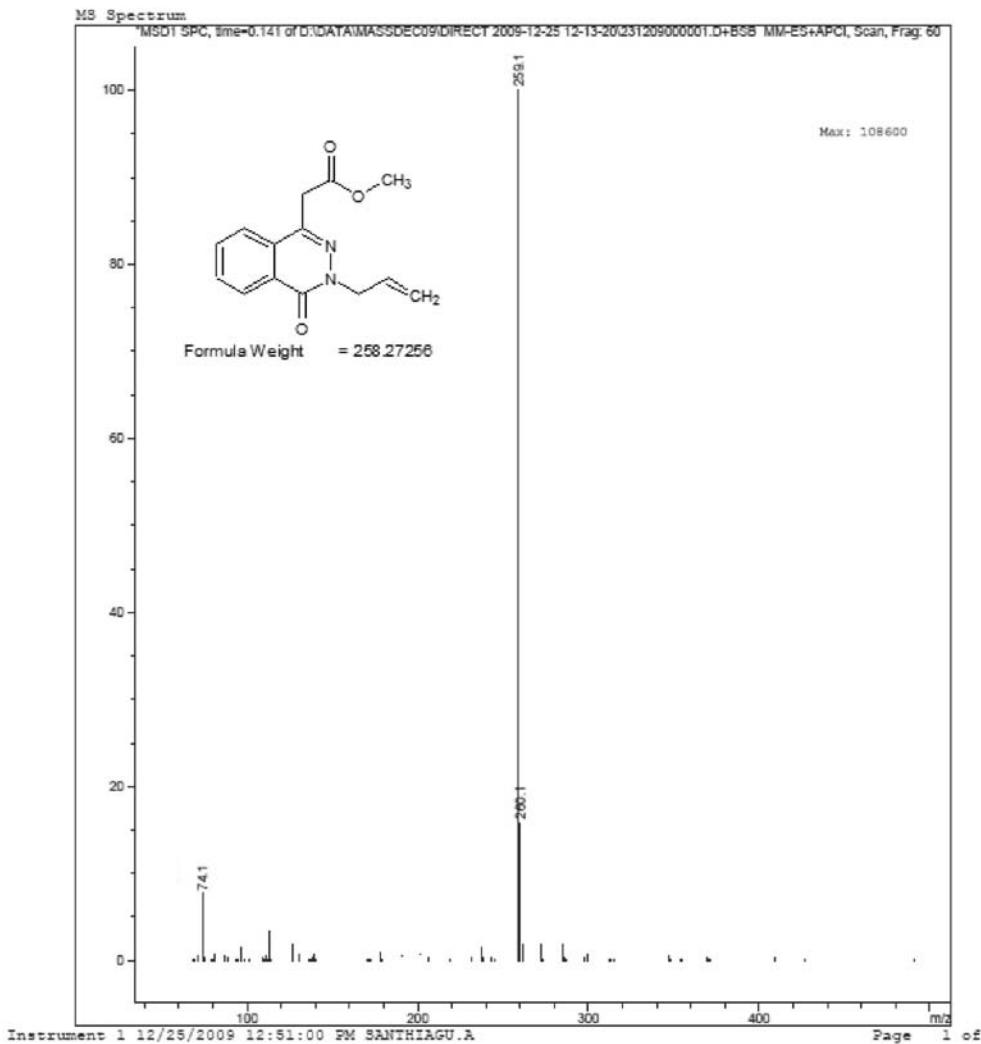


Figure S1. Mass spectrum of methyl 2-(3-allyl-4-oxo-3,4-dihydrophthalazin-1-yl)acetate (**5**).

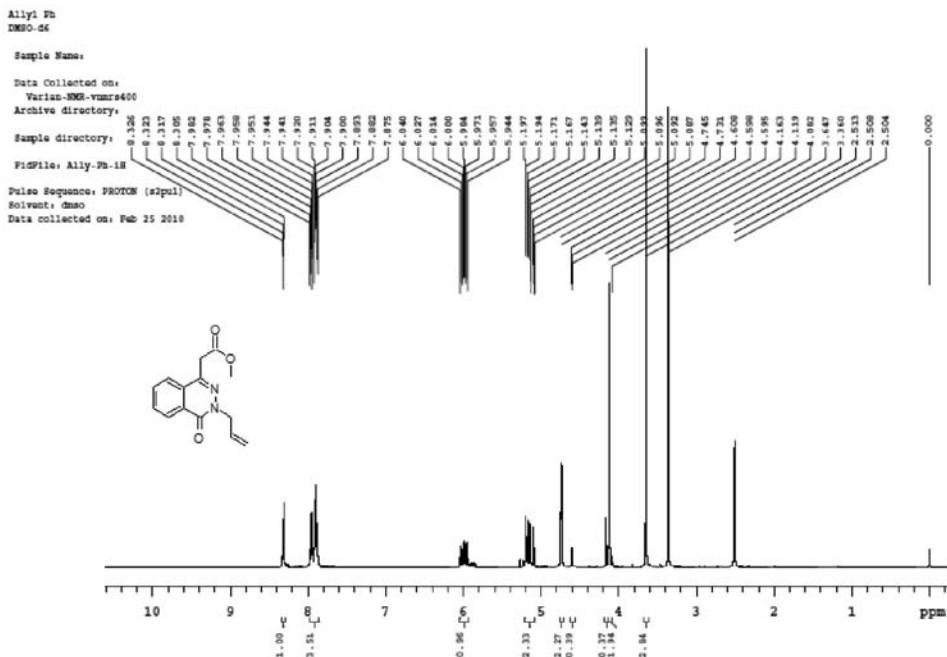


Figure S2. ^1H NMR spectrum of methyl 2-(3-allyl-4-oxo-3,4-dihydrophthalazin-1-yl)acetate (**5**).

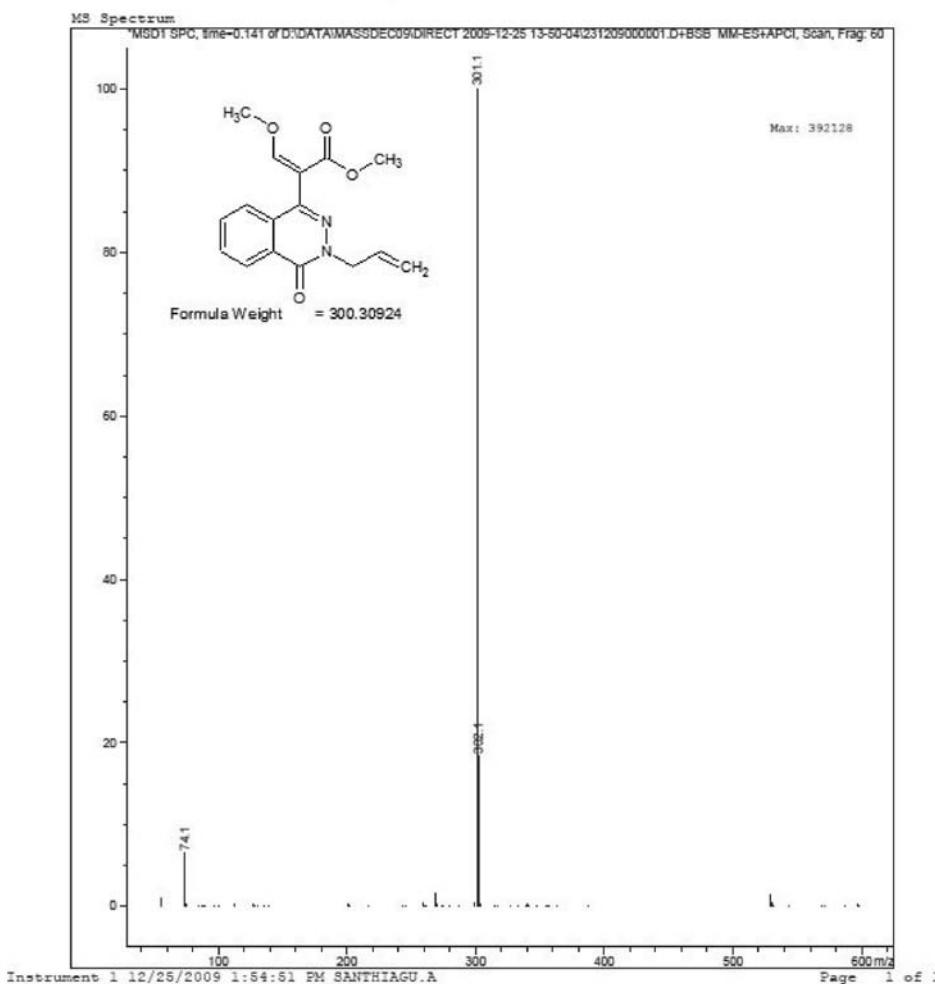


Figure S3. Mass spectrum of methyl 2-(3-allyl-4-oxo-3,4-dihydrophthalazin-1-yl)-3-methoxy acrylate (**6**).

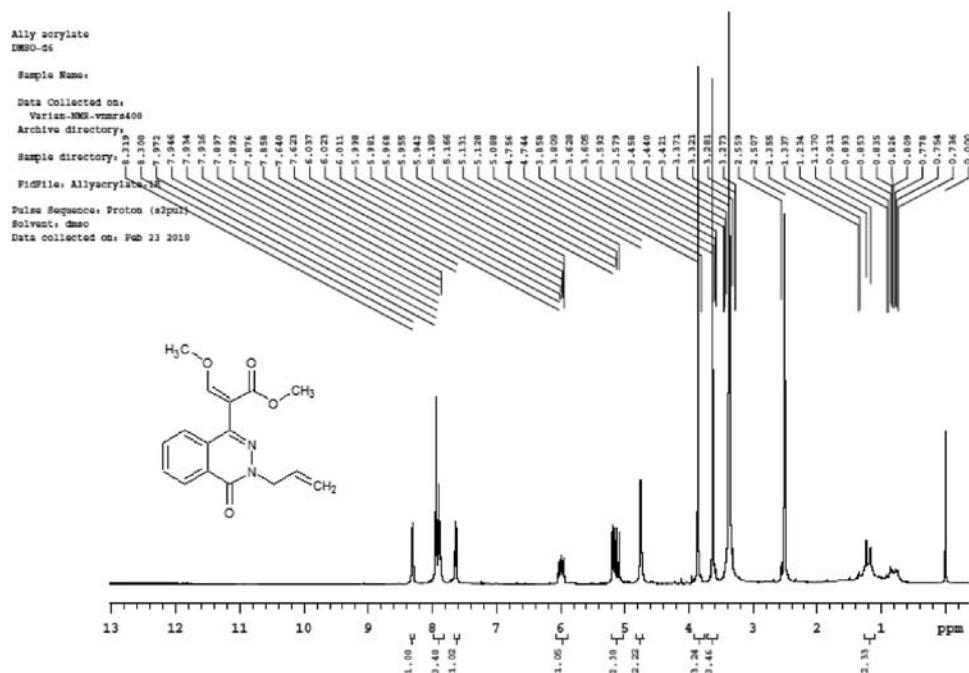


Figure S4. ¹H NMR spectrum of methyl 2-(3-allyl-4-oxo-3,4-dihydrophthalazin-1-yl)-3-methoxy acrylate (**6**).

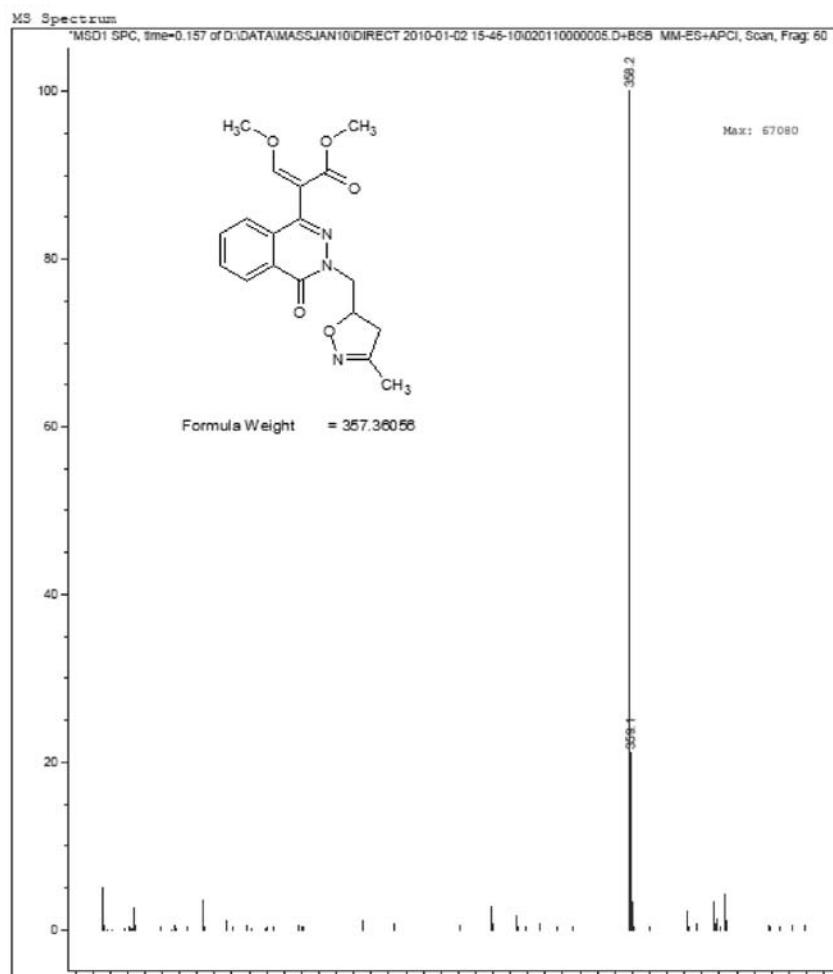


Figure S5. Mass spectrum of methyl 3-methoxy-2-(3-((3-methyl-4,5-dihydroisoxazol-5-yl)methyl)-4-oxo-3,4-dihydrophthalazin-1-yl)acrylate (**7a**).

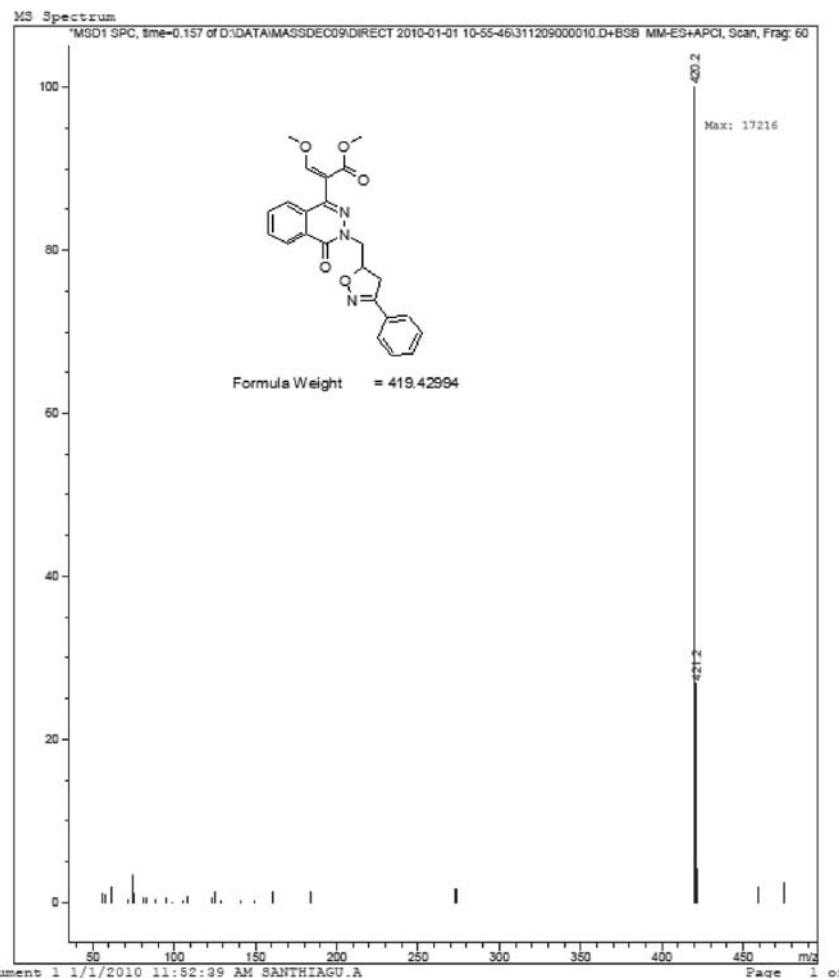
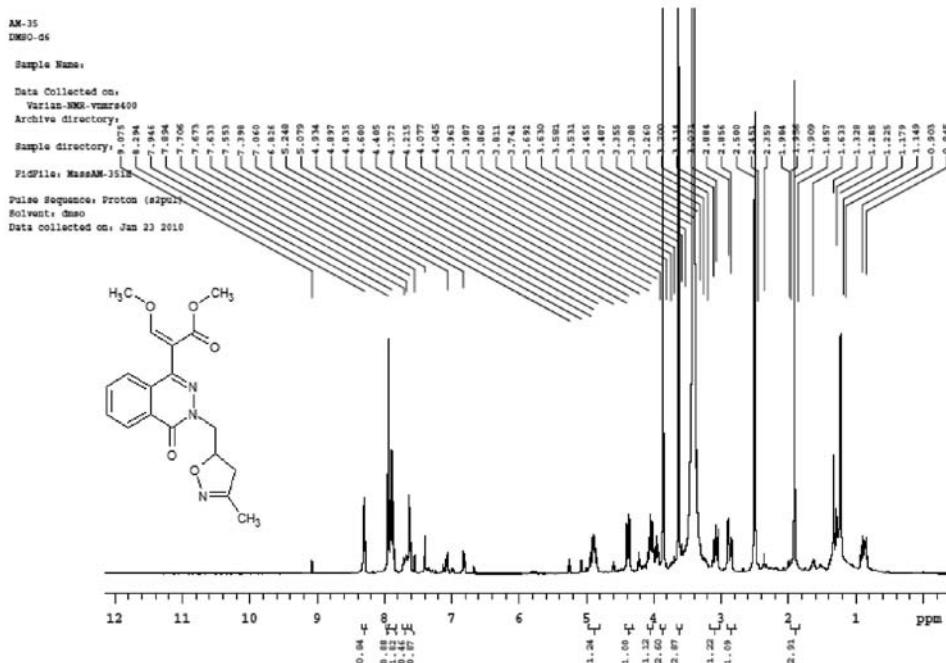


Figure S7. Mass spectrum of methyl 3-methoxy-2-(4-oxo-3-((3-phenyl-4,5-dihydroisoxazol-5-yl)methyl)-3,4-dihydrophthalazin-1-yl)acrylate (**7b**).

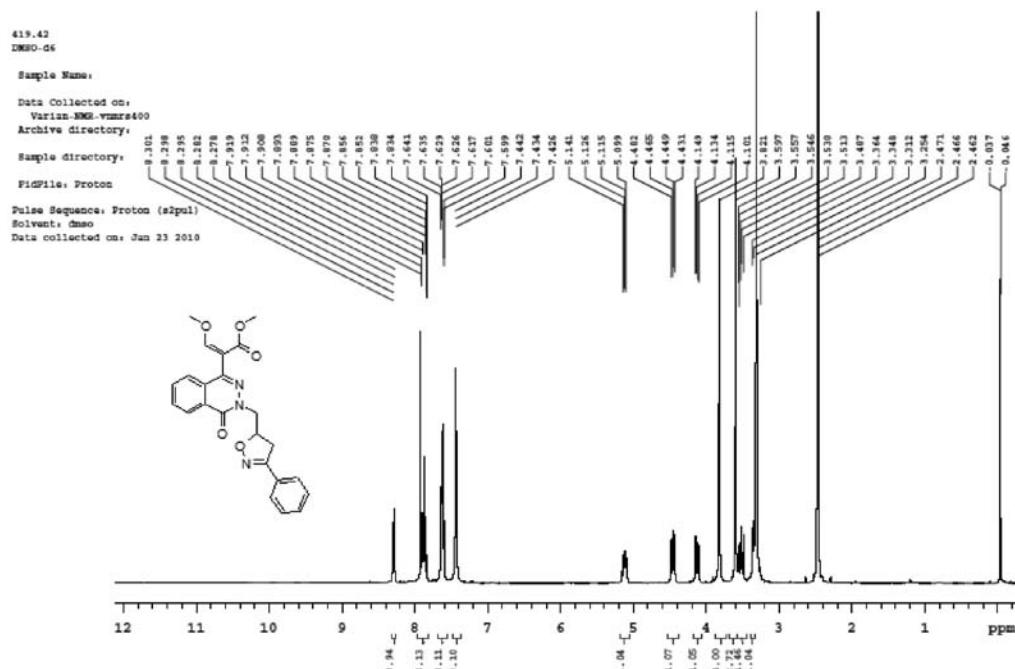


Figure S8. ¹H NMR spectrum of methyl 3-methoxy-2-(4-oxo-3-(3-phenyl-4,5-dihydroisoxazol-5-yl)methyl)-3,4-dihydrophthalazin-1-yl)acrylate (**7b**).

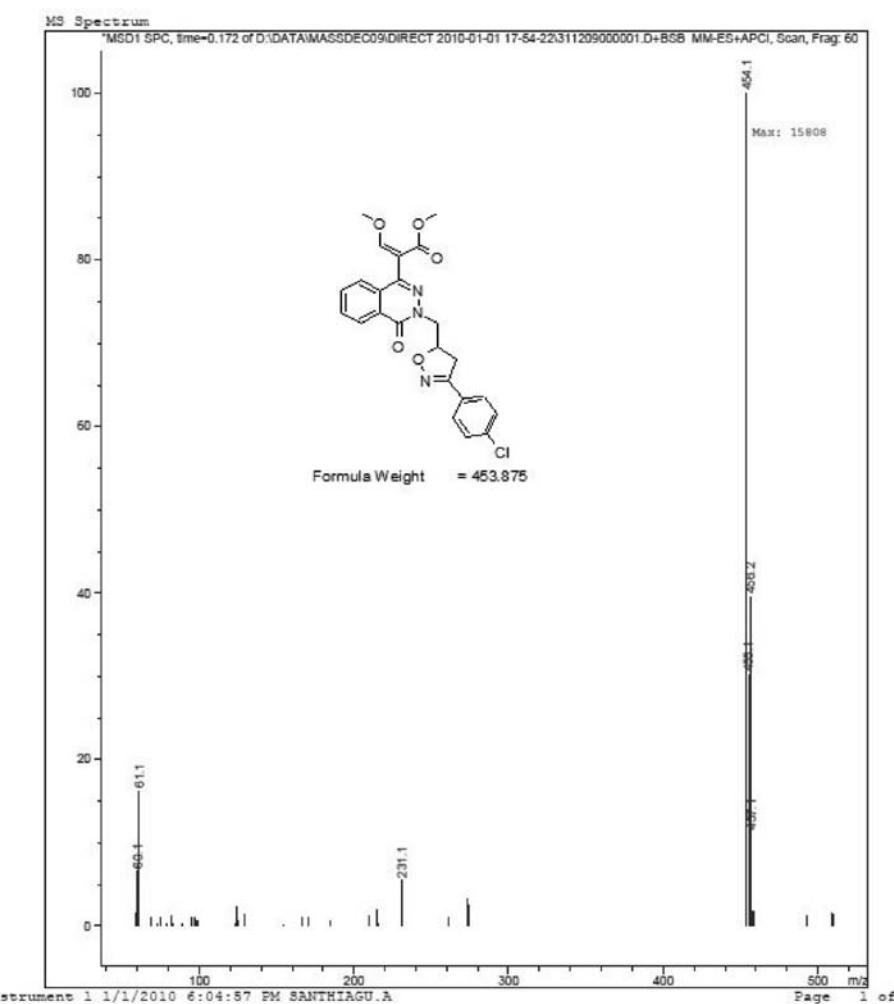


Figure S9. Mass spectrum of methyl 2-(3-((3-(4-chlorophenyl)-4,5-dihydroisoxazol-5-yl)methyl)-4-oxo-3,4-dihydrophthalazin-1-yl)-3-methoxyacrylate (**7c**).

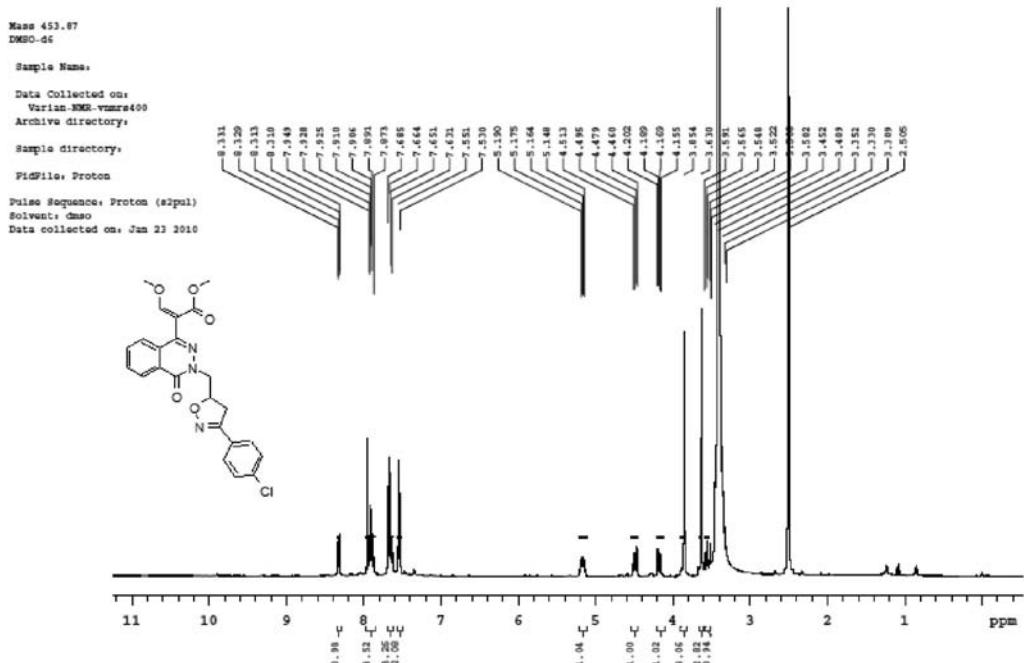


Figure S10. ^1H NMR spectrum of methyl 12-(3-((3-(4-chlorophenyl)-4,5-dihydroisoxazol-5-yl)methyl)-4-oxo-3,4-dihydropthalazin-1-yl)-3-methoxyacrylate (**7c**).

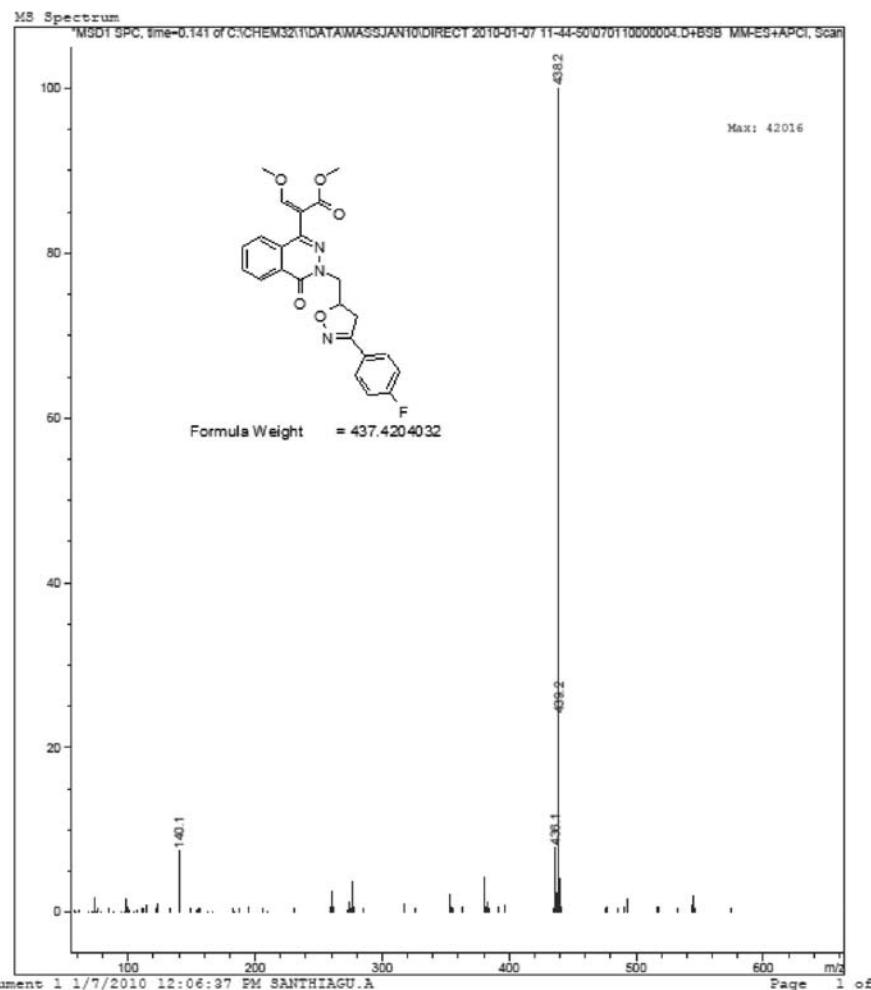


Figure S11. Mass spectrum of methyl 2-((3-((3-(4-fluorophenyl)-4,5-dihydroisoxazol-5-yl)methyl)-4-oxo-3,4-dihydrophthalazin-1-yl)-3-methoxyacrylate (**7d**).

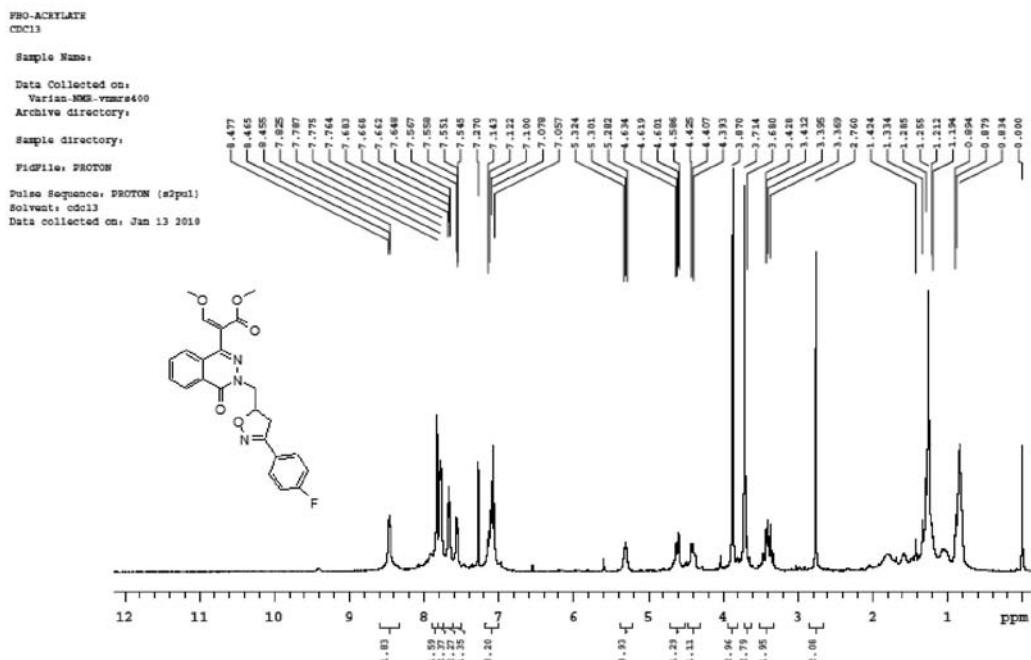


Figure S12. ¹H NMR spectrum of methyl 2-(3-((3-(4-fluorophenyl)-4,5-dihydroisoxazol-5-yl)methyl)-4-oxo-3,4-dihydrophthalazin-1-yl)-3-methoxyacrylate (**7d**).

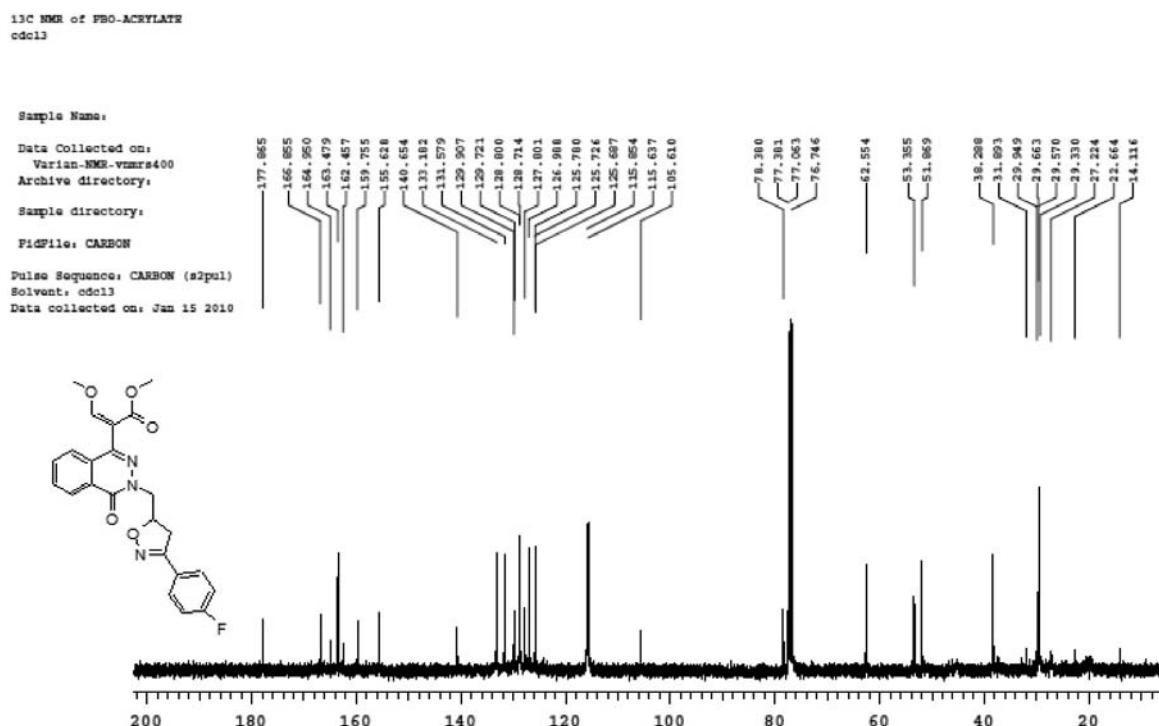


Figure S13. ¹³C NMR spectrum of methyl 2-(3-((3-(4-fluorophenyl)-4,5-dihydroisoxazol-5-yl)methyl)-4-oxo-3,4-dihydrophthalazin-1-yl)-3-methoxyacrylate (**7d**).

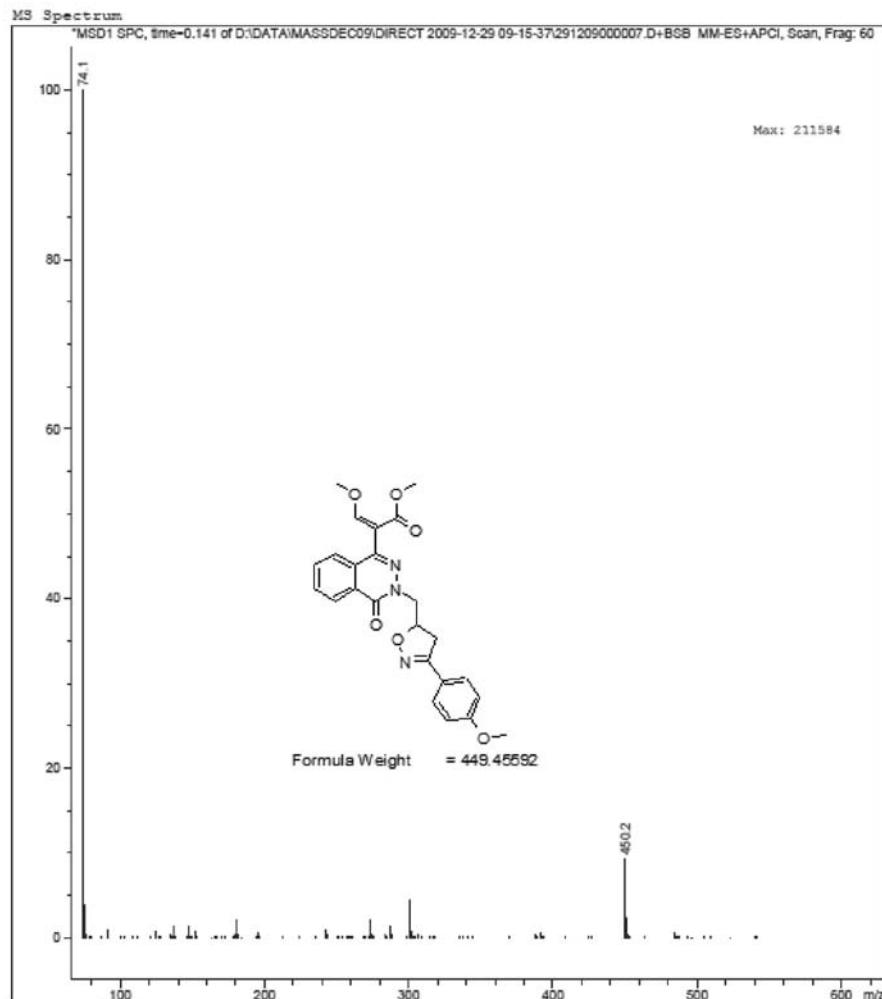


Figure S14. Mass spectrum of methyl 2-(3-((3,4-dimethoxyphenyl)-4,5-dihydroisoxazol-5-yl)methyl)-4-oxo-3,4-dihydrophthalazin-1-yl)-3-methoxyacrylate (**7e**).

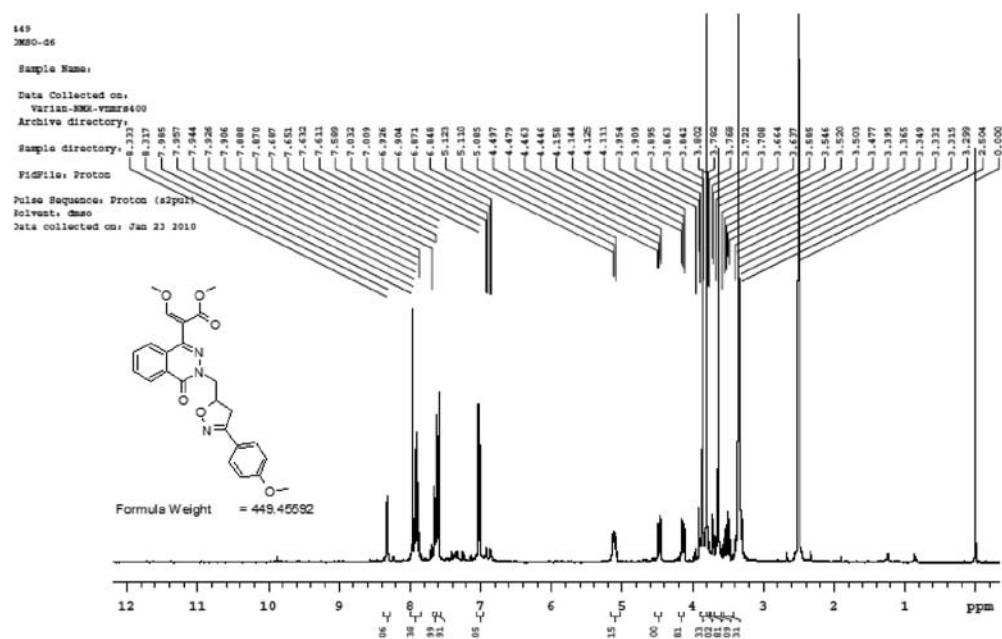


Figure S15. ^1H NMR spectrum of methyl 2-(3-((3-(3,4-dimethoxyphenyl)-4,5-dihydroisoxazol-5-yl)methyl)-4-oxo-3,4-dihydrophthalazin-1-yl)-3-methoxyacrylate (**7e**).

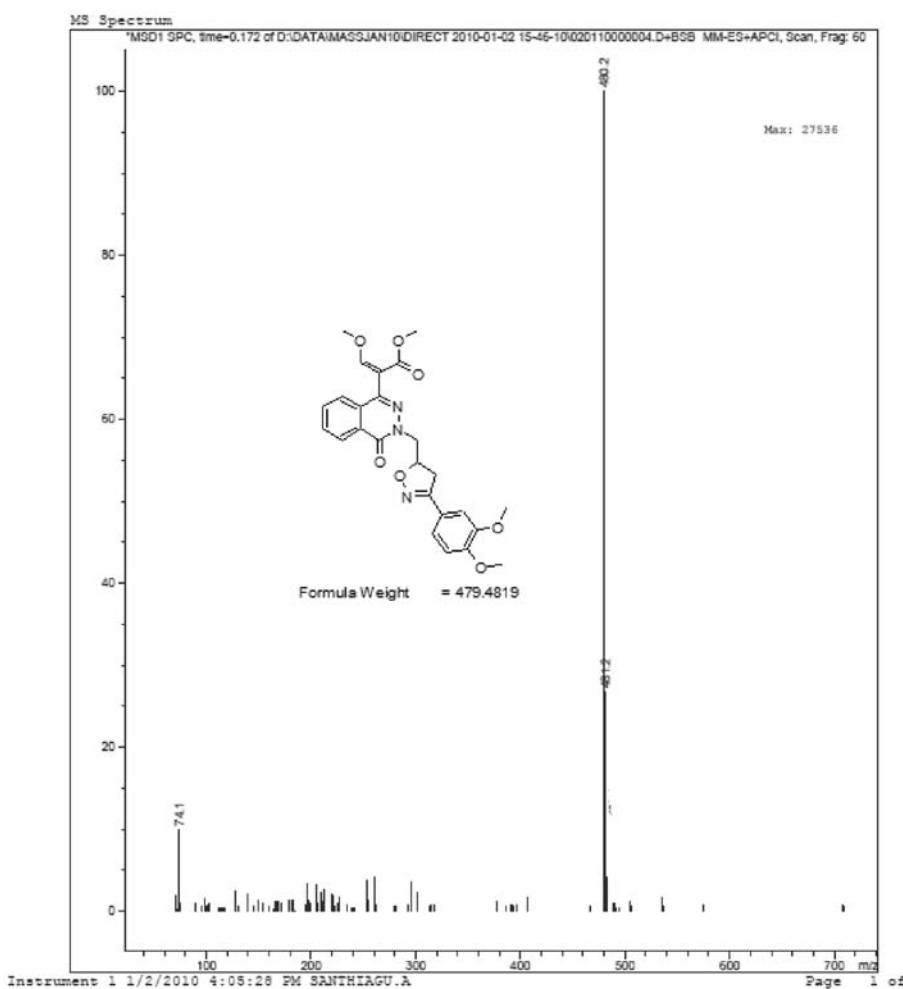


Figure S16. Mass spectrum of methyl 2-(3-((3-(3,4-dimethoxyphenyl)-4,5-dihydroisoxazol-5-yl)methyl)-4-oxo-3,4-dihydrophthalazin-1-yl)-3-methoxyacrylate (**7f**).

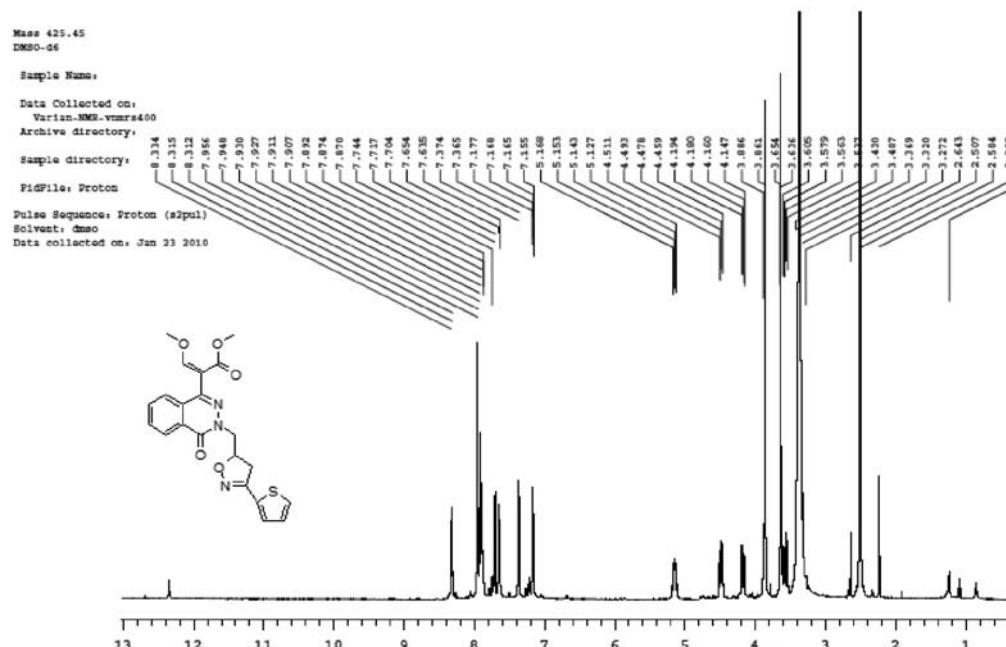


Figure S17. ^1H NMR spectrum of methyl 3-methoxy-2-(4-oxo-3-((3-thiophen-2-yl)-4,5-dihydroisoxazol-5-yl) methyl)-3,4-dihydrophthalazin-1-yl acrylate (**7h**).

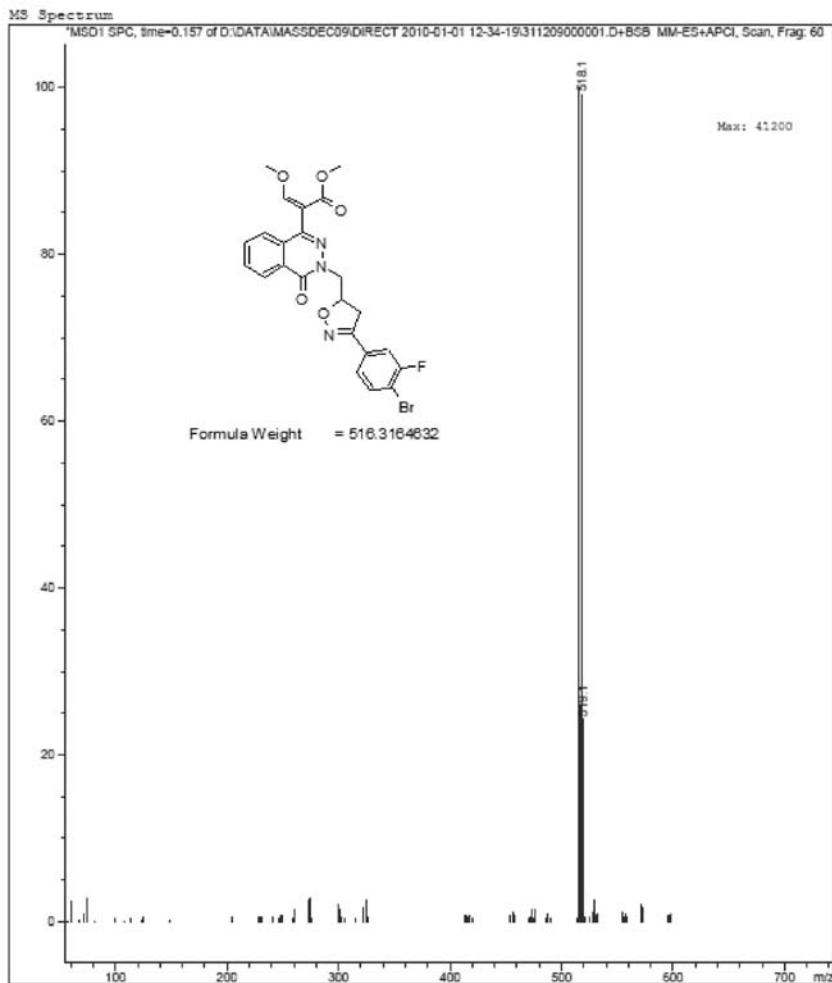


Figure S18. Mass spectrum of methyl 2-(3-((3-(4-bromo-3-fluorophenyl)-4,5-dihydroisoxazol-5-yl)methyl)-4-oxo-3,4-dihydrophthalazin-1-yl)-3-methoxyacrylate (**7i**).

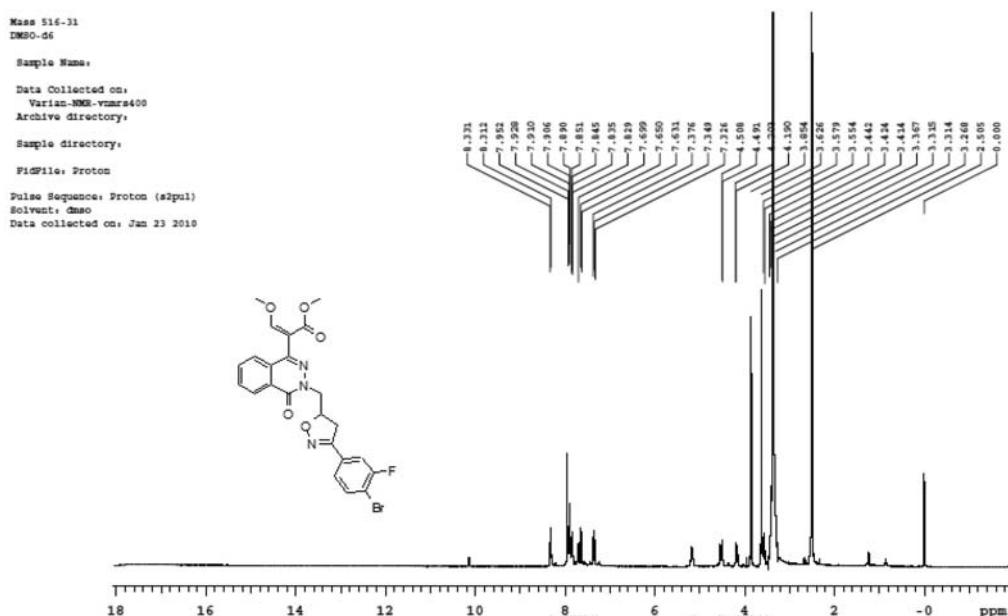


Figure S19. ¹H NMR spectrum of methyl 2-(3-((3-(4-bromo-3-fluorophenyl)-4,5-dihydroisoxazol-5-yl)methyl)-4-oxo-3,4-dihydrophthalazin-1-yl)-3-methoxyacrylate (**7i**).

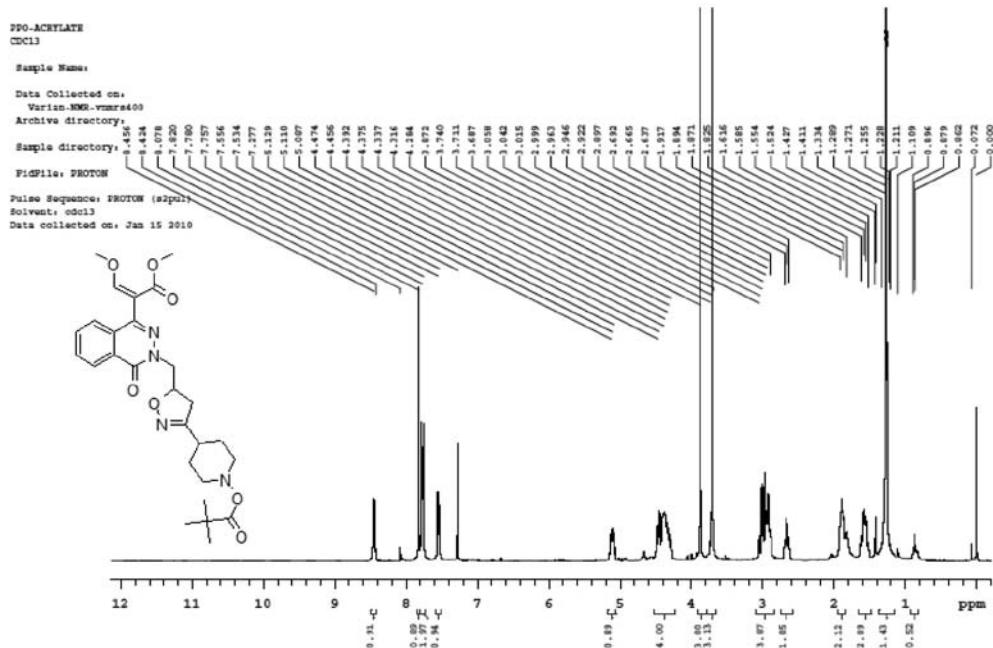


Figure S20. ^1H NMR spectrum of methyl 3-methoxy-2-(4-oxo-3-((3-(1-pivaloylpiperidin-4-yl)-4,5-dihydroisoxazol-5-yl)methyl)-3,4-dihydrophthalazin-1-yl)acrylate (**7j**).

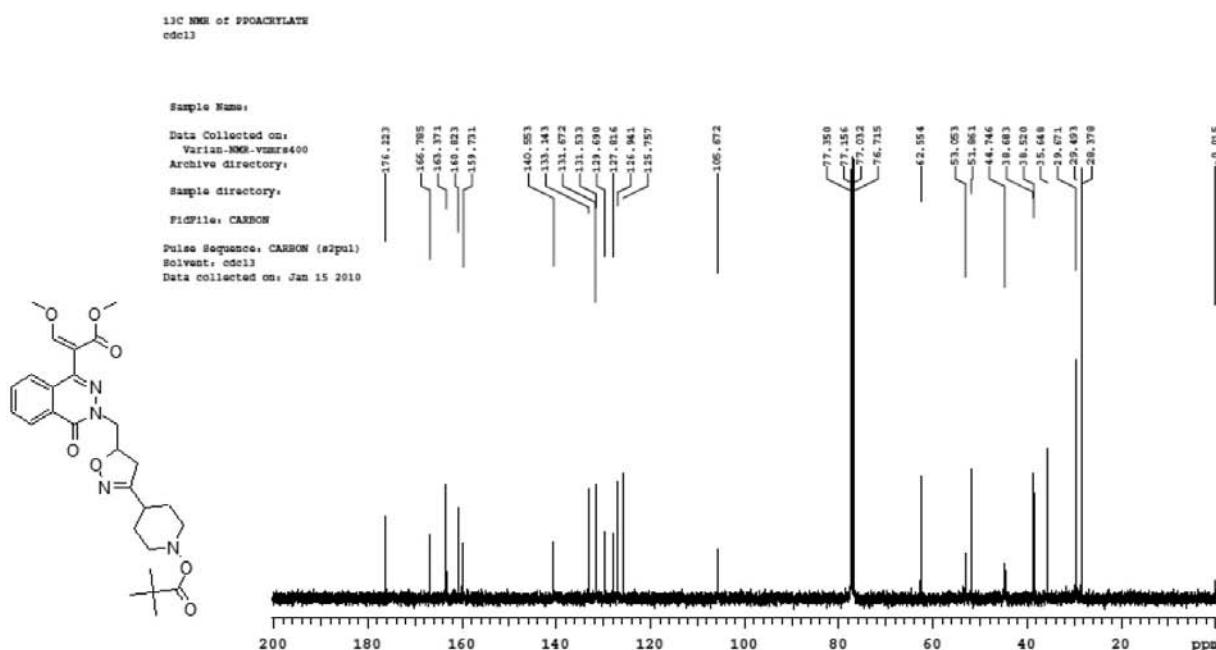


Figure S21. ^{13}C NMR spectrum of methyl 3-methoxy-2-(4-oxo-3-((3-(1-pivaloylpiperidin-4-yl)-4,5-dihydroisoxazol-5-yl)methyl)-3,4-dihydrophthalazin-1-yl)acrylate (**7j**).

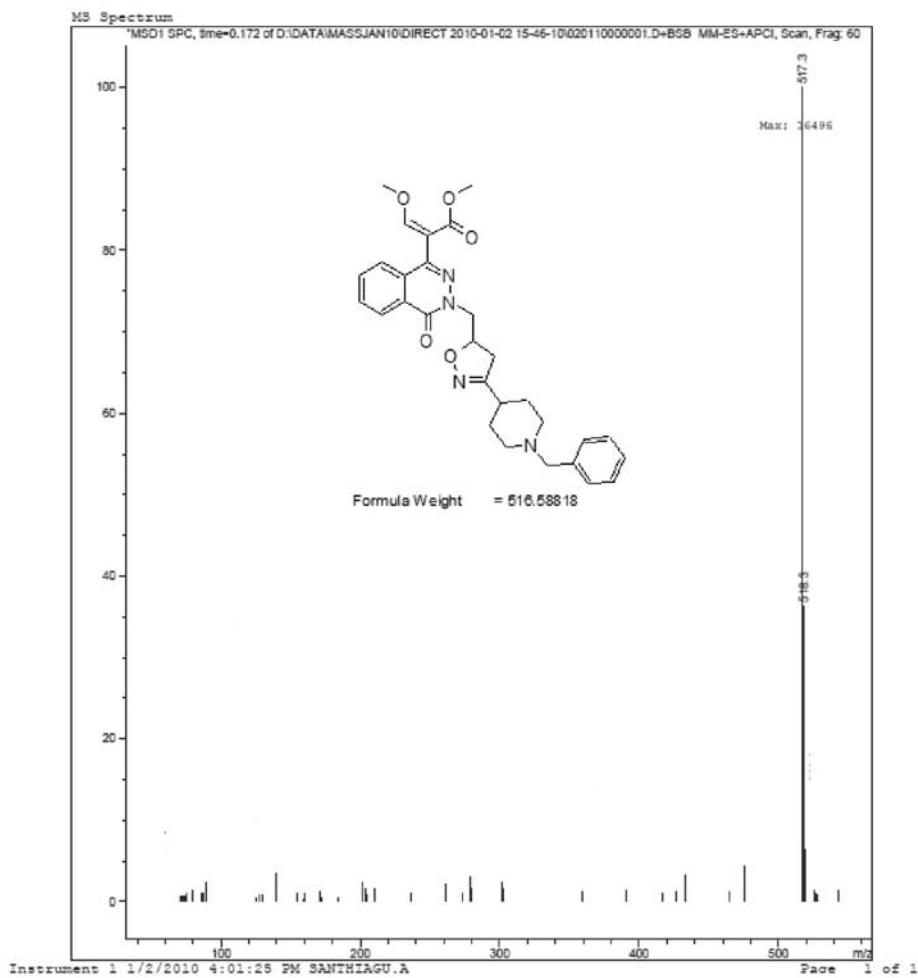


Figure S22. Mass spectrum of methyl 2-(3-((3-(1-benzylpiperidin-4-yl)-4,5-dihydroisoxazol-5-yl)methyl)-4-oxo-3,4-dihydrophthalazin-1-yl)-3-methoxyacrylate (**7k**).

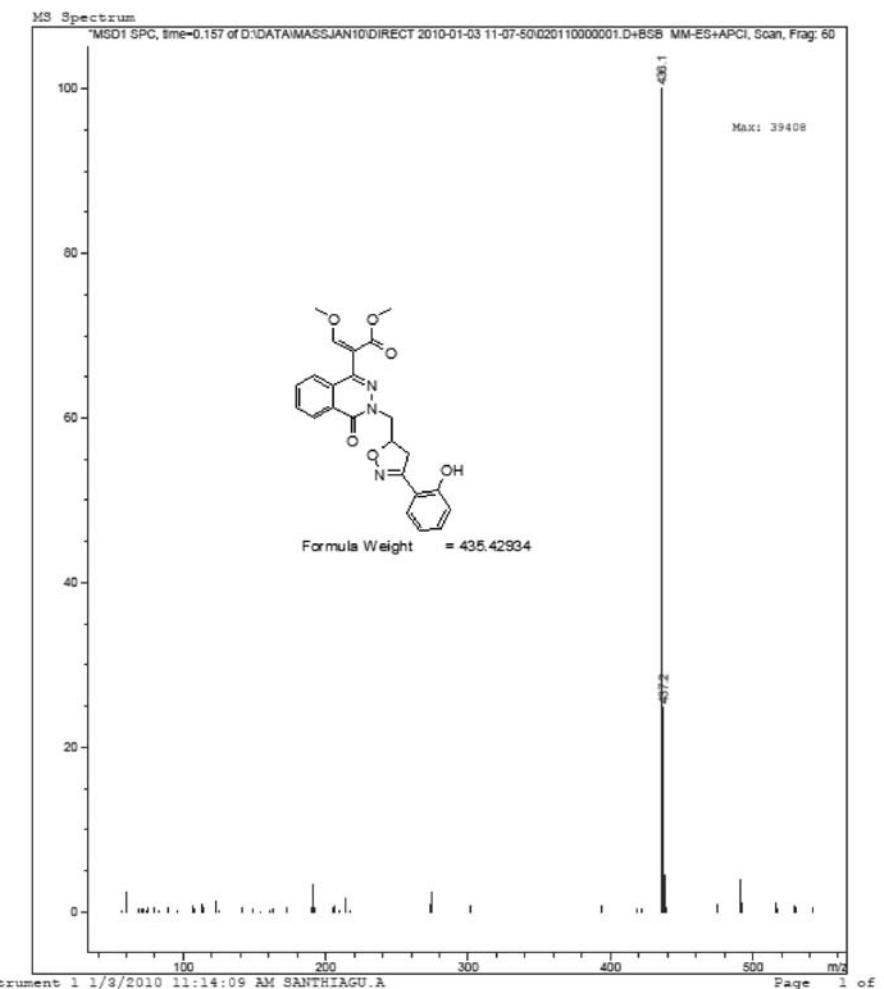


Figure S23. Mass spectrum of methyl 2-(3-((3-(2-hydroxyphenyl)-4,5-dihydroisoxazol-5-yl)methyl)-4-oxo-3,4-dihydrophthalazin-1-yl)-3-methoxyacrylate (**7l**).

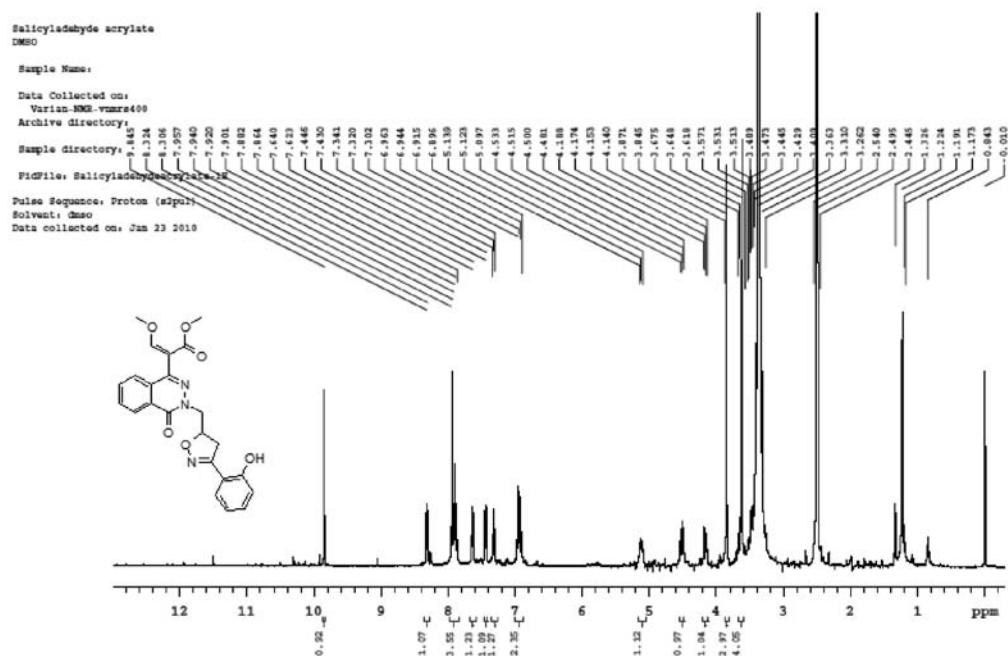


Figure S24. ^1H NMR spectrum of methyl 2-(3-((3-(2-hydroxyphenyl)-4,5-dihydroisoxazol-5-yl)methyl)-4-oxo-3,4-dihydrophthalazin-1-yl)-3-methoxyacrylate (**7l**).